Acer Aspire iDea series
Service Guide

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Revision History

Please refer to the table below for the updates of Aspire iDea series service guide.

Date	Chapter	Updates

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Conventions

The following conventions are used in this manual:

SCREEN MESSAGES	Denotes actual messages that appear on screen.
NOTE	Gives bits and pieces of additional information related to the current topic.
WARNING	Alerts you to any damage that might result from doing or not doing specific actions.
CAUTION	Gives precautionary measures to avoid possible hardware or software problems.
IMPORTANT	Reminds you to do specific actions relevant to the accomplishment of procedures.

Preface

Before using this information and the product it supports, please read the following general information.

1. This Service Guide provides you with all technical information relating to the BASIC CONFIGURATION decided for Acer's “global” product offering. To better fit local market requirements and enhance product competitiveness, your regional office MAY have decided to extend the functionality of a machine (e.g. add-on card, modem, or extra memory capability). These LOCALIZED FEATURES will NOT be covered in this generic service guide. In such cases, please contact your regional offices or the responsible personnel/channel to provide you with further technical details.
2. Please note WHEN ORDERING FRU PARTS, you should check the most up-to-date information available on your regional web or channel. For whatever reason, if a part number change is made, it will not be noted in the printed Service Guide. For ACER-AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code to those given in the FRU list of this printed Service Guide. You MUST use the list provided by your regional Acer office to order FRU parts for repair and service of customer machines.

Table of Contents

Chapter 1 System Specification 1

Overview 1
System Specification 1
Block Diagram 3
Main Board Placement 4
Front Panel View 7
Rear Panel View 9
Remote Control 11
Using the Remote Control 13
Wireless Keyboard 14
Setting up the System 16
Connecting the Power Cable 16
Connecting Display Devices 17
Connecting to a TV Antenna or Cable 20
Connecting an FM Radio Antenna 20
Connecting Audio Devices 21
Configuring Audio Output Settings 22
Setting up the Wireless Devices 23
Windows XP Media Center 25
Opening Media Center 25
Media Center Home Page 25
Configuring Your Set-Top Box 26
Closing Media Center 26
Acer eRecovery Management 27
Launching Acer eRecovery Management 27
Copying the Factory Default Settings Image 27
Creating System Backups 28
Creating an Incremental Backup 28
Copying to Disks 28
Restoring the System 29
Other System Restore Modes 29
Acer ePerformance Management 31
Acer ePerformance Management Main Page 31
Hardware Specification and Configuration 32
Major Chips 32
Processor 32
BIOS 33
BIOS Hotkey 33
AC'97 Audio Codec ALC883DD 33
Wake-Up Event Specification 33
System Memory 34
LAN Interface 34
IDE Interface 34
ODD Interface 35
USB Interface 36
Environment Requirements 36
Drop Test 36

Power Management Function (ACPI Support Function) 38
Device Standby Mode 38
Global Standby Mode 38
Suspend Mode 38
ACPI 38
About the Setup Utility 39
The Standard Configuration 39

Chapter 2 Setup Utility 39

Entering the Setup Utility 40
Product Information 42
Standard CMOS Features 43
Advanced BIOS Features 44
Advanced Chipset Features 46
Integrated Peripherals 47
Power Management Setup 49
PnP/PCI Configuration 51
PC Health Status 53
Frequency/Voltage Control 54
Load Default Settings 55
Set Supervisor/User Password 55
Save and Exit Setup 55
Exit without Saving 55

Chapter 3 Machine Disassembly and Replacement 56

General Information 57
Before You Begin 57
Disassembly Procedure 58
Removing the Memory 58
Removing the Upper Case 58
Removing the ODD Module 59
Removing the HDD Module 60
Removing the System Power Supply 60
Removing the RCA Board 61
Removing the Add-on Cards 62
Removing the VFD Board 64
Removing the Wireless Keyboard Module and the Bluetooth Module 65
Removing the CPU Fan 66
Removing the Card Reader Board 66
Removing the Main Board and the Split Board 67

Chapter 4 Troubleshooting 68

Chapter 5 Jumper and Connector Information 69

Introduction of Connectors 69
Upper Side of Main Board 69
Lower Side of Main Board 70
Jumper Setting and Power button 71

Chapter 6 FRU (Field Replaceable Unit) List 72

Parts 73

System Specification

Overview

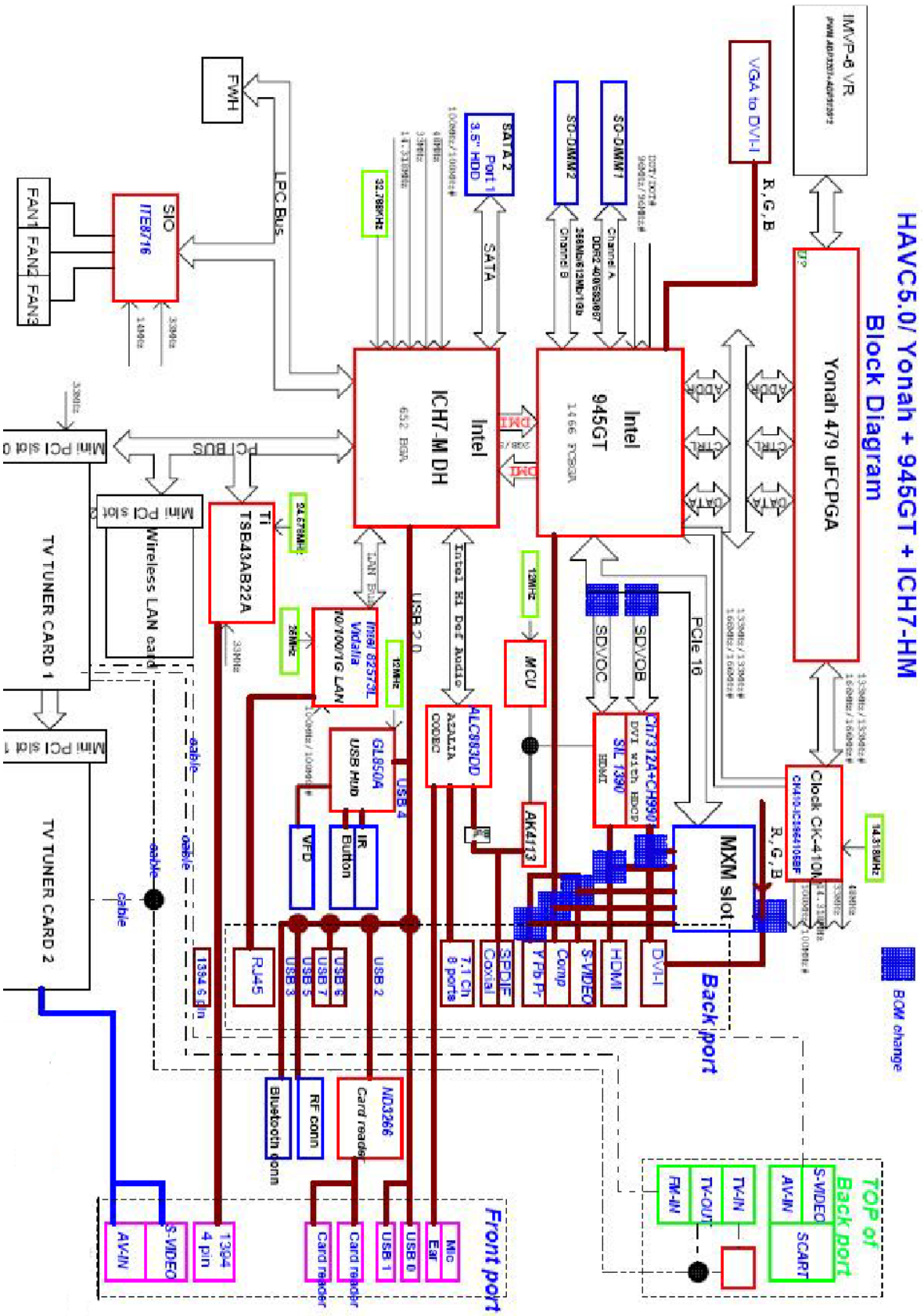
System Specification

Item	Description
Operating system	Microsoft® Windows® XP Media Center Edition (Emerald)
Platform	❑ Intel® Yonah dual core processor T2300/T2400/T2500/T2600 (2MB L2 cache, 1.66/1.83/2.0/2.16GHz, FSB 667MHz) ❑ Intel® 945GT + ICH7M-DH
System memory	❑ 256, 512 or 1024MB of DDR2 533/667MHz memory ❑ Dual channel ❑ Upgradeable to 2GB using two soDIMM modules
Storage subsystem	❑ 250/400/500GB 3.5” hard disk drive, SATA-II with NCQ ❑ Slot-loading optical drive: DVD Dual or DVD Super Multi ❑ Two card reader slots, SD/MMC/MS/MS PRO/MD/CF-I/CF-II support
Power subsystem	FSP 120W AC internal power supply unit (FSP120-40GLS)
Acoustic Estimation	23 dBA (idle, 1M), 28 dBA (MCE heavy load, 1M)
Audio	❑ Controller: Realtek ALC883DD ❑ High definition, Dolby® Digital Live and DTS connect support ❑ 7.1-CH analog output with S/PDIF support for digital output
Communication	❑ LAN controller: Intel® 82573L (Vidalia), GbE Ethernet; Wake-on-LAN ready ❑ WLAN: 802.11b/g mini-PCI card with external antenna ❑ WPAN: internal USB bluetooth module (**optional**) ❑ IR: internal beam-bag MCE compliant RC6 receiver with dual IR emitters ❑ Wireless keyboard: internal 2.4GHz RF wireless keyboard receiver with auto-pairing technology
TV tuner card	Support up to two hybrid mini-PCI TV tuner cards
Graphics solution	❑ Chip: Intel® Gen 3.5 Integrated Graphic Engine ❑ Transmitter for DVI-I (HDCP): Chrontel 7313A ❑ Transmitter for HDMI: Silicon image 1390support

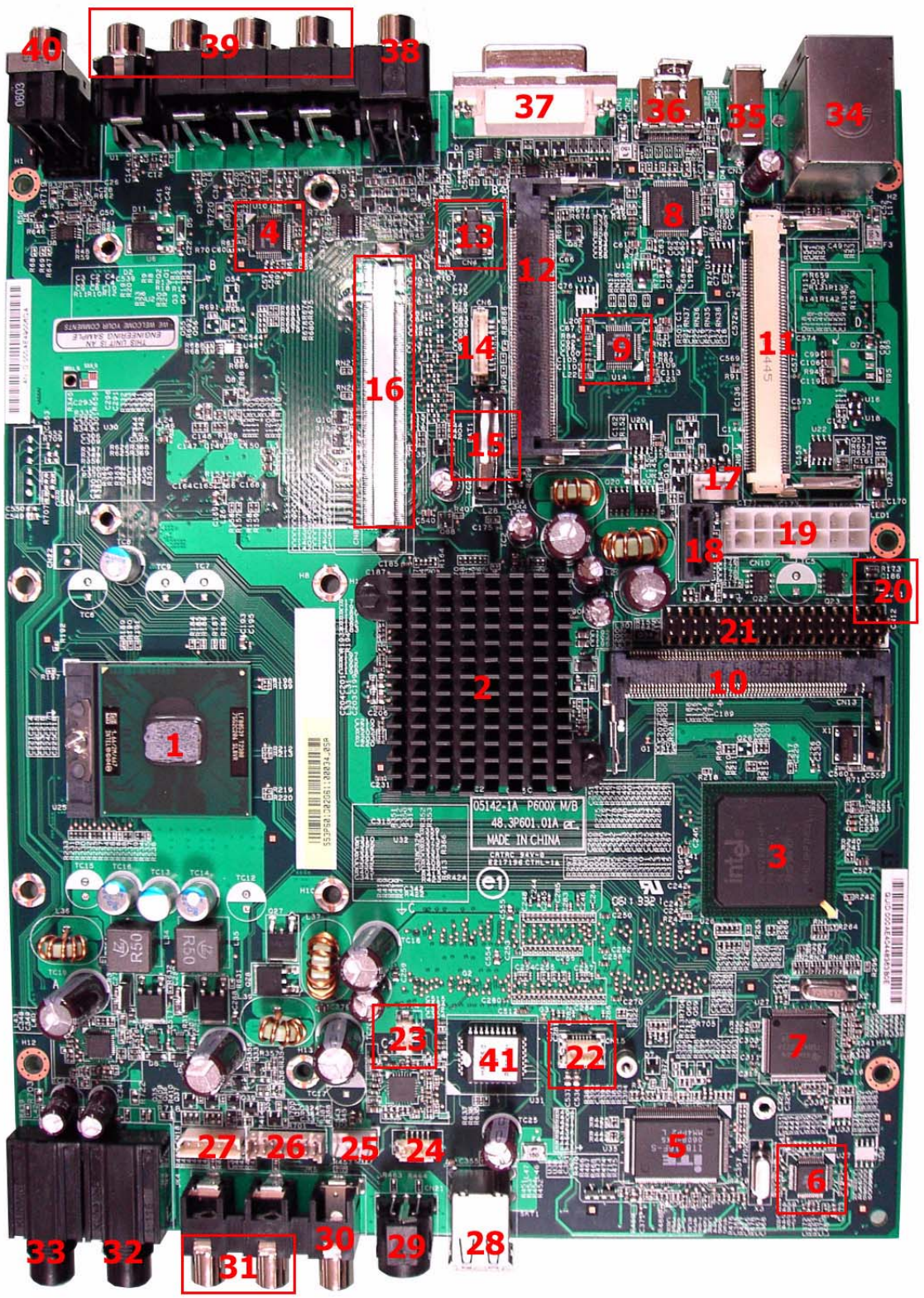
Display/Buttons	❑ Front panel VFD for MCE status and media title display
	❑ Media control keys: Stop, Play/Pause, Previous/REW, Next/FF and Rec
	❑ MCE Navigation buttons: Up, Down, Left, Right, OK, Back
	❑ Power button with power status LED
	  ❑ Normal working: blue
	  ❑ Away mode: amber-blinking
	  ❑ S3: amber
	  ❑ S4/S5: off

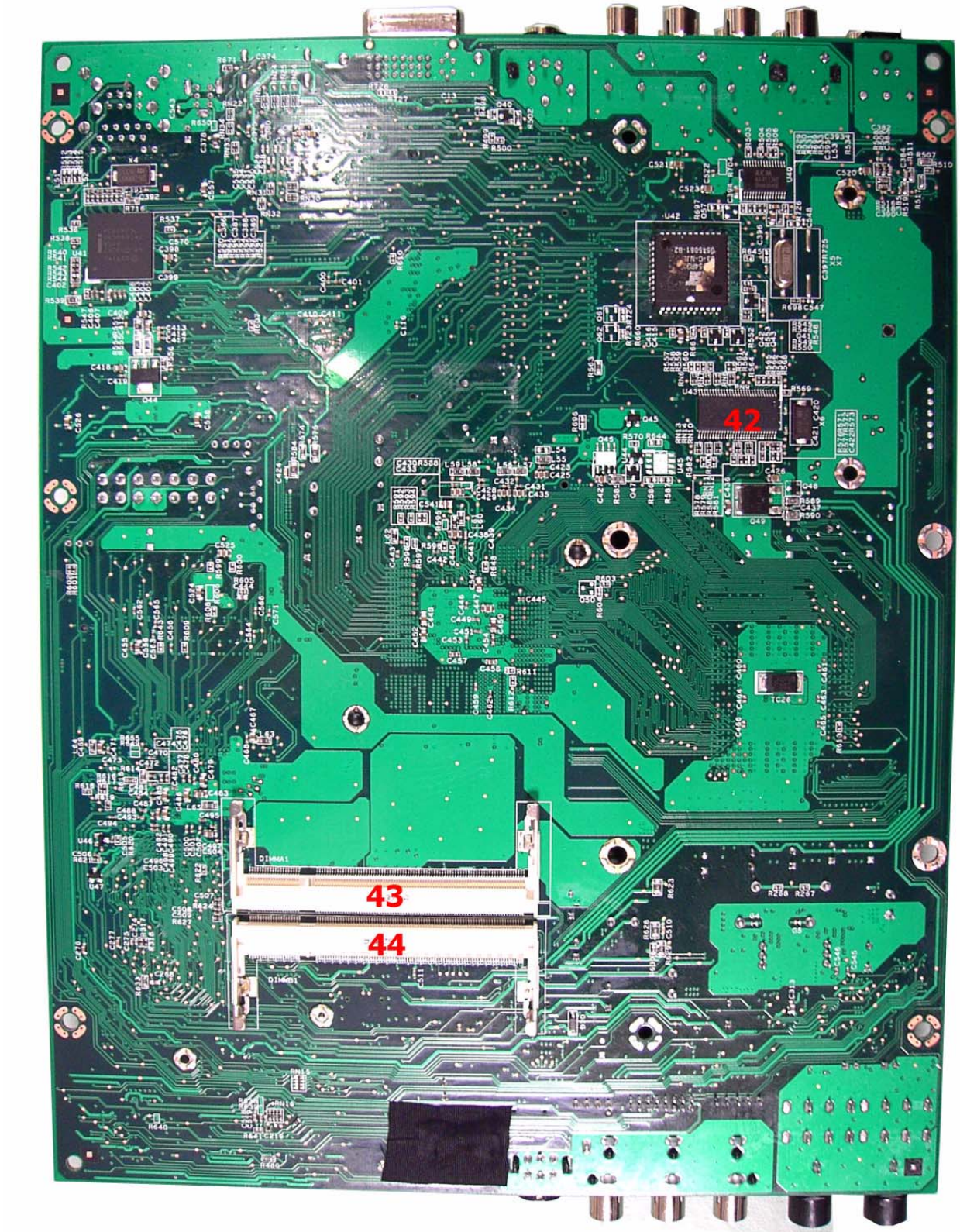
Item	Description
I/O interface	Rear I/O ❑ Audio/Video output ❑ One coaxial S/PDIF and 1 optical S/PDIF ❑ One set of 7.1-channel (RCA) ❑ One HDMI: HDCP support ❑ One DVI-I: HDCP support, using DVI to VGA adapter for VGA output ❑ One set of component (Y Pb Pr) (RCA) ❑ One S-Video out ❑ One Composite video out (RCA) ❑ Audio/Video input ❑ Two S-Video in (non-EMEA SKU) ❑ Two Composite in (RCA, non-EMEA SKU) ❑ Two Stereo in (RCA, non-EMEA SKU) ❑ SCART ports (EMEA SKU only) ❑ One SCART-in for S-Video, CVBS, Stereo input ❑ One SCART-in/out for system's CVBS, Stereo output and 2nd S-Video, CVBS, Stereo input (for dual TV tuner SKU) ❑ Other I/O ports ❑ One RJ-45 GbE LAN port with LED indicators ❑ One IEEE 1394a (6-pin) ❑ Two USB 2.0 ports ❑ Two IR blaster ❑ One TV antenna/cable input ❑ One TV antenna/cable output ❑ One FM antenna input ❑ One WLAN external antenna ❑ One AC inlet ❑ On MXM slot (**optional**) Front I/O ❑ Audio/Video input/output ❑ One 1/4-inch earphone output ❑ One 1/4-inch microphone input ❑ One S-Video in ❑ One Composite in (RCA) ❑ One Stereo in (RCA) ❑ Other I/O ports ❑ One 4-pin IEEE 1394 ❑ One CF socket for CF-I, CF-II and Micro Drive ❑ One multi socket for SD/MMC/MS/MS PRO ❑ Two USB 2.0 ports

Block Diagram



Main Board Placement

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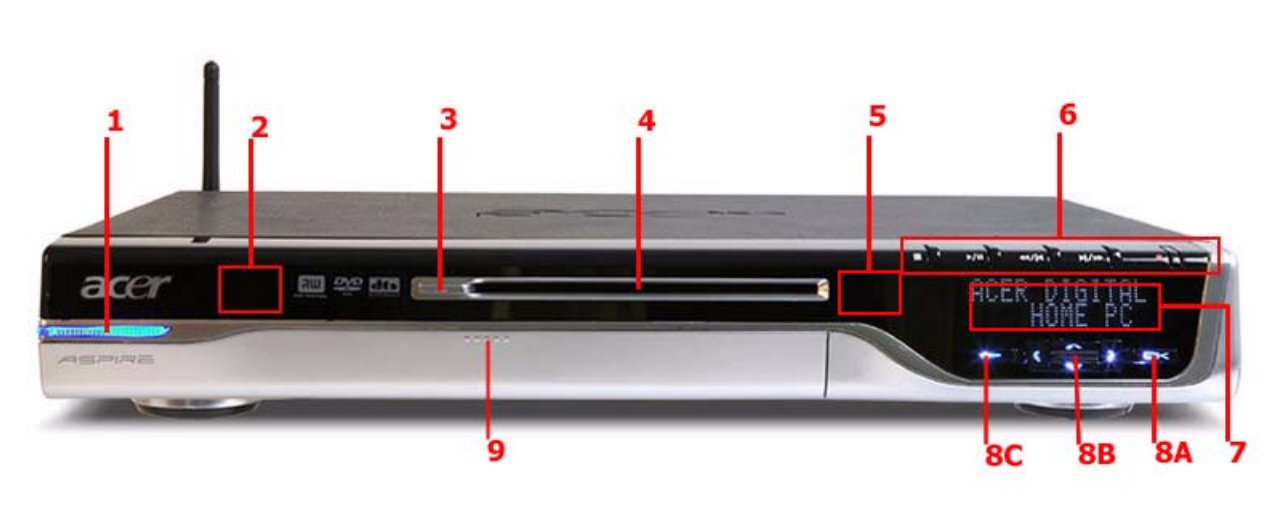
No.	Description	No.	Description
1	CPU socket	2	North bridge
3	South bridge	4	Azalia codec: Realtek ALC883DD
5	Super I/O controller: ITE8716F	6	USB hub: GL850A
7	IEEE 1394: Ti TSB43AB22A	8	Transmitter for HDMI: Silicon Image 1390
9	Transmitter for DVI-I: Chrontel 7313A	10	Mini PCI 1 slot for TV tuner card 1
11	Mini PCI 2 slot for TV tuner card 2	12	Mini PCI 3 slot for WLAN card
13	YPbPr to main board connector	14	SCART to main board connector
15	Battery	16	MXM connector (optional)
17	System fan connector	18	SATA connector
19	14-pin power connector	20	Jumper connector
21	PATA connector	22	Card reader connector
23	Bluetooth connector	24	IR connector
25	CPU fan connector	26	VFD board connector
27	Power button connector	28	USB 2.0 ports
29	S-Video input jack	30	Video input jack
31	Audio input jack	32	1/4” microphone jack
33	1/4” headphone jack	34	RJ-45 port and two USB 2.0 ports
35	6-pin IEEE1394 port	36	USB 2.0 port
37	DVI-I connector	38	Video output jack and S-Video output jack
39	Multi-channel speaker audio output connectors	40	Coaxial digital audio output jack
41	BIOS chip: PMC PM49FL004T	42	Clock generator
43	soDIMM slot	44	soDIMM slot

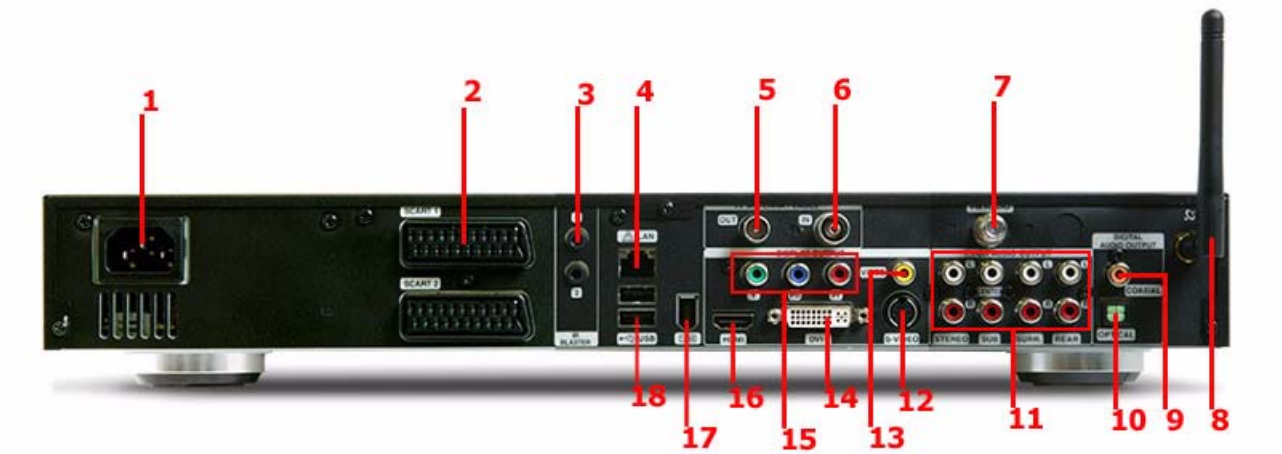
Front Panel View



No.	Component	Description
1	Power button	Press to power on or power off the system.
2	RF (radio frequency) receiver	Receives radio frequency from wireless touchpad keyboard.
3	Drive eject button	Ejects the optical disk.
4	Multi writable DVD drive	Use to access and record data on compact disks (CDs) and digital video disks (DVDs)
5	IR (Infrared) receiver	Receives IR signals from the remote control.
6	Playback controls	Lets you conveniently play, record, pause, stop, forward, rewind, skip, or replay a song, slide show, movie or TV program.
7	VFD (Vacuum Fluorescent display)	Displays the current Media Center status, current system date and time, or media title display.
8	MCE (Media Center Edition) navigation buttons	• 8A: Press the Back button to return to the previous view. • 8B: Press the Left, Right, Up, or Down arrow buttons to navigate through the Media Center menu options. • 8C: Press the OK button to access the Media Center menu options and confirm your selection.
9	I/O ports cover release button	Press to open the I/O ports cover.

No.	Component	Description
10	4-pin IEEE 1394 port	Connects to an IEEE 1394 device (e.g., digital video camcorder).
11	XD/SD/MMC/MS/MS PRO slot	Accepts an XD (eXtreme Digital), SD (Secure Digital), MMC (MultiMediaCard), MS (Memory Stick) or MS PRO (Memory Stick PRO) card. **WARNING:** If you want to read contents from small form factor memory cards, such as mini-SD, RS-MMC, or MS PRO, you should use a suitable adaptor.
12	CF-I/CF-II/MD slot	Accepts a CF (Compact Flash) Type I, CF Type II or Microdrive.
13	USB 2.0 ports	Connects to USB peripherals devices (e.g., USB mouse, USB printer, USB combo drive, digital cameras).
14	S-Video input jack	Connects to a video recorder, camcorder, or a device with S-Video output signal.
15	Video input jack	Connects to a video recorder, camcorder, game console or a device with video output signal.
16	Audio input jack	Connects t a video recorder, camcorder, audio casette player or stereo walkman.
17	1/4” microphone jack	Connects to a microphone.
18	1/4” headphone	Connects to a headphone.

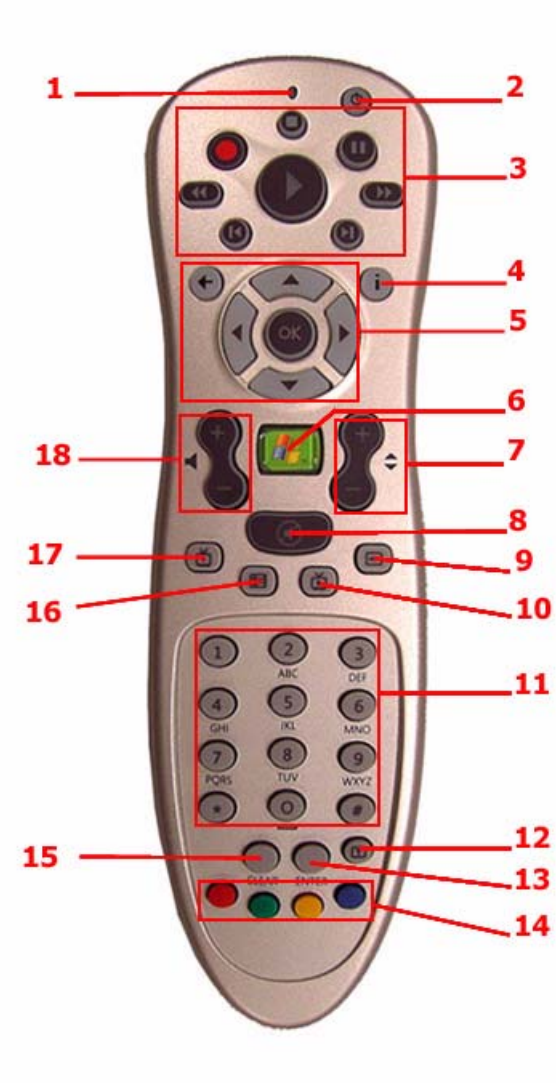
Rear Panel View



No.	Component	Description
1	Power connector	Plug the power cable into this connector.
2	SCART input connector	Connects to a set-top box or another A/V device. The SCART input connector supports Video, S-Video and Audio (L and R) input signals.
	SCART input/output connector	Connects to a TV or a set-top box. The SCART input/output connector supports Video, S-Video, Audio (L and R) input and Composite Video and Audio (L and R) output signals.
3	IR blaster ports	Connects an IR blaster to the set-top-box's IR sensor window.
4	LAN port	Connects to an Ethernet 10/100/1000MB based network
5	TV antenna/cable output jack	Connects to a television.
6	TV antenna/cable input jack	Connects to an antenna or cable TV.
7	FM radio input jack	Connects to an external FM radio antenna.
8	WLAN antenna connector	Connects to a wireless LAN antenna.
9	Coaxial digital audio output jack	Connects to a digital device, such as MiniDisc recorders, home theater receivers, or A/V receivers.
10	Optical digital audio output jack	
11	Multi-channel speaker audio output connectors	Connects to an amplifier which has multi-channel audio system.
12	Video output jack	Connects to a TV with video output.
13	S-Video output jack	Connects to a TV with S-Video input.
14	Component video output jack	Connects to a TV with YPbPr input.
15	DVI-I connector	Connects to a TV or LCD with DVI input or use the DVI-to-VGA adapter to connect a TV or monitor with VGA (D-Sub) input.

No.	Component	Description
16	HDMI	Connects to a TV with HDMI input.
17	6-pin IEEE 1394 port	Connects to an IEEE 1394 device (e.g., digital video camcorder, hard disk, scanners).
18	USB 2.0 ports	Connects to USB peripherals devices (e.g., USB mouse, USB printer, USB drive).

Remote Control



No.	Component	Description
1	Power LED	Indicates that a command button is pressed.
2	Sleep	Press to turn system to standby (sleep) mode. While in standby (sleep) mode, press the button again to wake up or activate the system.
3	Playback controls	Lets you play, record, pause, stop, forward, rewind, skip or replay a song, slide show, movie or a TV program.
4	More Info	Displays more information regarding the active TV program, video, album, or pictures.

No.	Component	Description
5	Navigation buttons	The following navigation buttons let you access all Media Center pages: • Arrow buttons: navigates through the menu options. • OK: selects an option in the Media Center menus and confirm your selection. • Back: Moves back to the previous screen.
6	Start	Press the Start button to launch the Media Center Home Page.
7	Channel/Page	Moves pages up and down or changes the channels on the My TV page.
8	Mute	Turns the system sound off and on.
9	DVD menu	When a DVD video is playing, press this button to display the DVD disc's main menu.
10	Live TV	Displays a full screen view of a live TV program.
11	Numeric buttons	Switches channels or inputs alphanumeric characters in the Media Center text box.
12	Teletext	Turns Teletext on and off.
13	Enter	Press to confirm your input or selection.
14	Teletext hotkeys	When setting up programs in the TV menu, the following colored buttons have the following function: • Red: navigate to the previous page • Green: move to the next page • Yellow and blue: select, insert, and return to the Teletext menu.
15	Clear	Press to erase the character you entered.
16	Guide	Opens the TV Program Guide to display available channels and programs that you can watch and recorded. **NOTE:** Available in selected country and regions.
17	Recorded TV	Displays the Recorded TV page.
18	Volume control	Increases or decreases the volume.

NOTE: The Teletext function is only available when the TV channel is broadcasting the Teletext programme. Teletext is a type of information service provided by the television broadcast companies. Teletext allows you to view the information of a video or program on your display device (i.e., news, weather, stock market, travel, etc.).

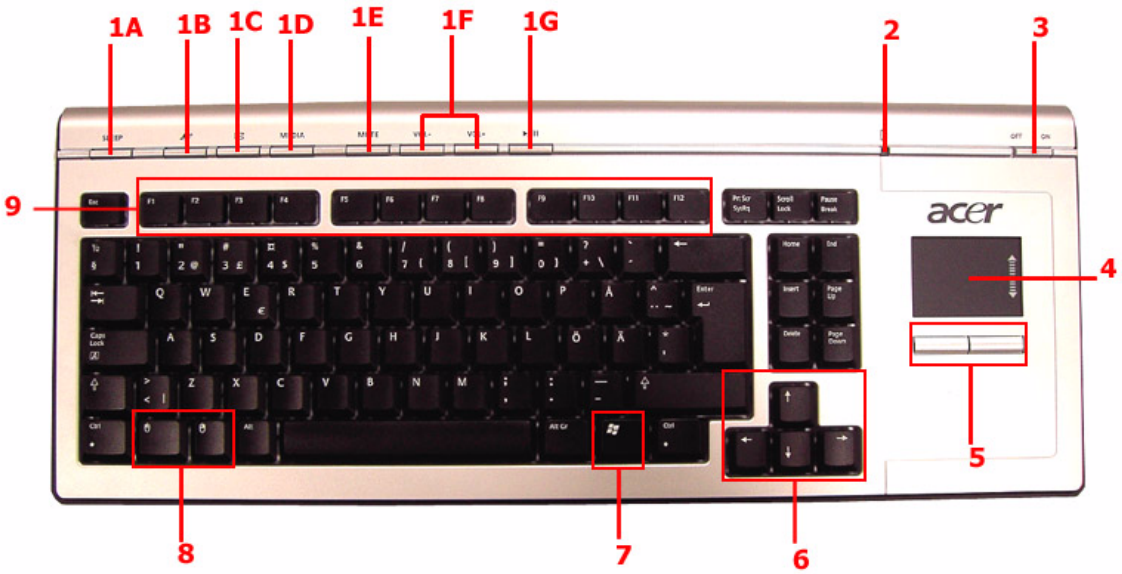
NOTE: Remote control appearance (shape and buttons) may vary with region and retail configuration.

Using the Remote Control

The Media Center remote control complements the wireless keyboard. It includes control buttons that is commonly found on a DVD player, VCR or TV. Use the remote control to open the Media Center Edition program and navigate through menus and commands; to listen to music, watch TV and DVDs, and view pictures and slide shows.

1. Use the remote control to point towards the system's IR receiver. Refer to "Front View" for the location of the IR receiver.
2. Press the button to launch or return to the Media Centre Home Page.

Wireless Keyboard



The wireless keyboard with built-in touch pad combines mouse control with touch typing. It has full-sized keys that include shortcut keys, status LED, power switch, touch pad, left and right buttons, arrow keys, one Windows key, left and right mouse keys, and 12 function keys.

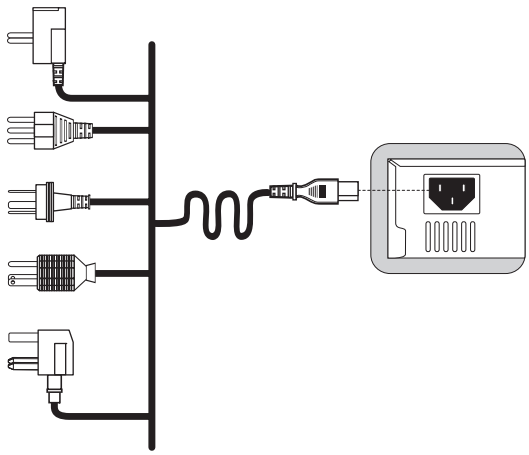
No.	Component	Description
1	Shortcut keys	Use the shortcut keys to do the following: • A Puts system to standby (sleep) mode. • B Launches Internet Explorer. • C Launches Microsoft Outlook Express. • D Launches Media player. • E Toggles the Media player sound on or off. • F Increases or decreases volume. • G Plays or pauses the Media player.
2	Status LED	Displays the following functions: • Green LED indicates the keyboard is turned on. The LED will flash for three seconds to confirm it is powering on, then stops flashing. • Flashing Green LED indicates the keyboard is synchronized to the system. • Red LED indicates battery level is low. The LED will turn green then flash red for two seconds to indicate keyboard's battery level is low.
3	Power switch	Turns the keyboard on and off. Slide to the right to turn on the keyboard or slide to the left to power off the keyboard.

No.	Component	Description
4	Touch pad	Pointing device that senses movement on its surface. Move your finger on the surface of the touch pad to move the cursor.
5	Left and right buttons	Press the left and right buttons to select and execute functions. These two buttons are similar to the left and right buttons on a mouse. Tapping on the touch pad produces similar results to clicking the left button.
6	Arrow keys	Moves the pointer around the Media Center menus.
7	Windows logo key	Start button. Combinations with this key perform special functions, such as: • + Tab: Activate the next Taskbar button. • + E: Explore My Computer. • + F: Find Document. • + M: Minimize All. • Shift + + M: Undo Minimize All. • + R: Display Run dialog box.
8	Left and right mouse keys	Press to simulate left and right mouse clicks.
9	Function keys (F1 to F12)	The function keys lets you perform specific functions, depending on the application that uses them.

NOTE: The keyboard may vary depending on region.

Setting up the System

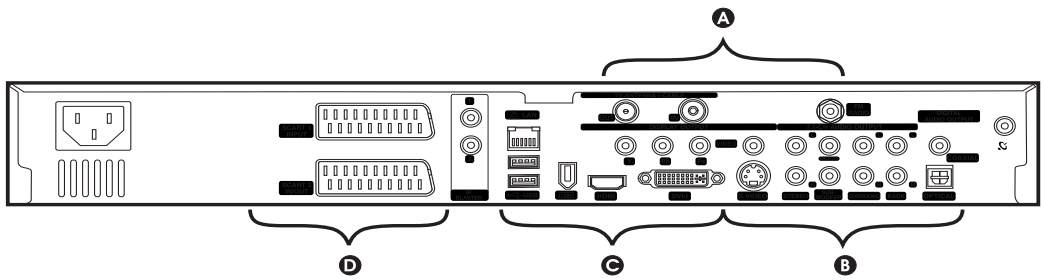
Connecting the Power Cable



NOTE: Please use the corresponding power cord for your region.

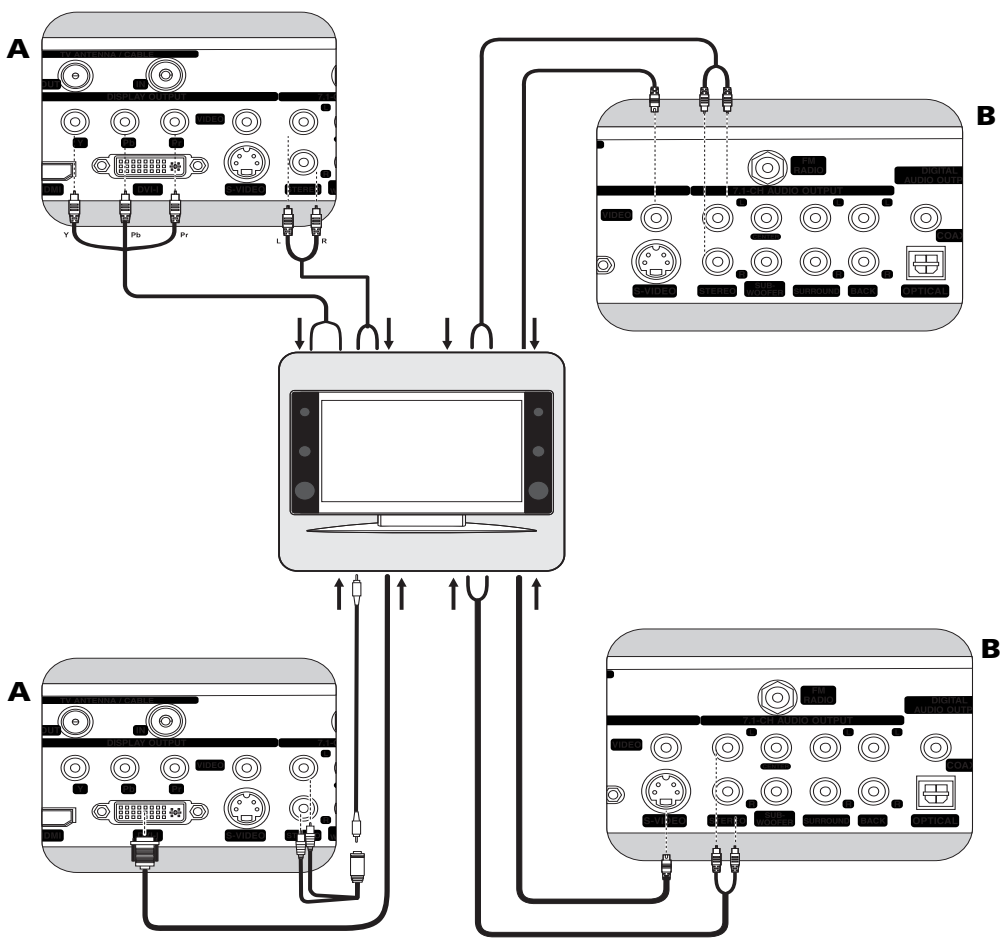
Connecting Display Devices

Please refer to the illustrations below for the possible and recommended connection type for setting up your display device.



Component (YPbPr) + stereo audio

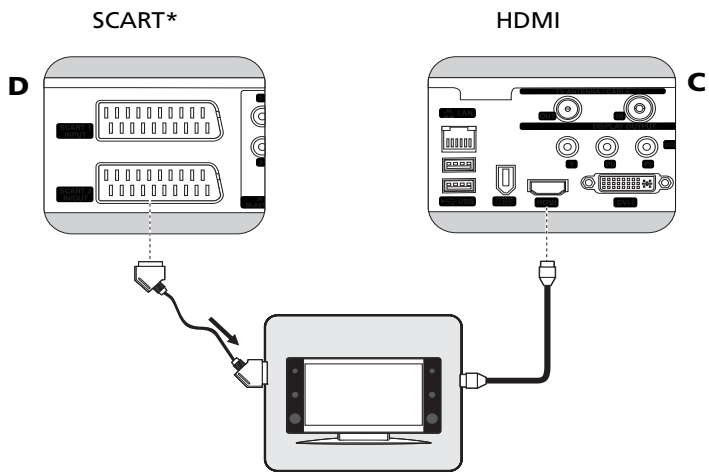
Video + stereo audio



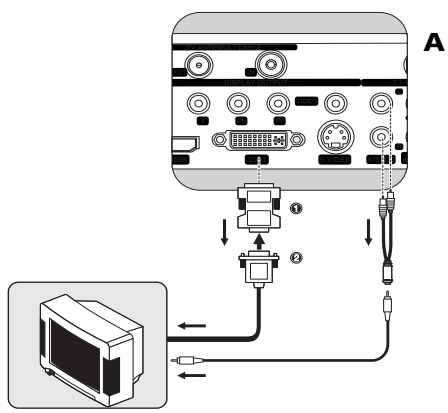
DVI + stereo audio*

S-video + stereo audio

NOTE: *Please use an extension cable to connect the Y cable to the display device's speaker input.



DVI to VGA using converter + stereo audio



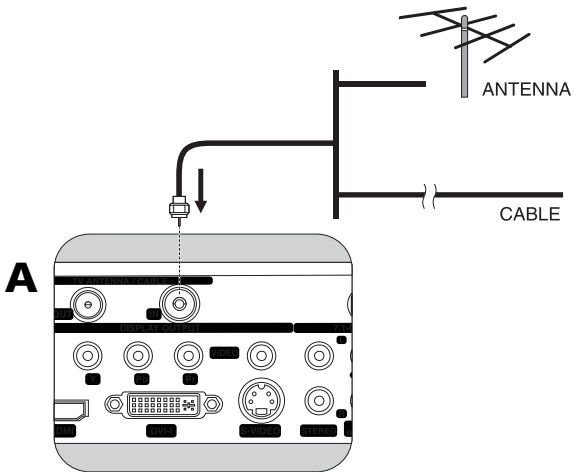
NOTE: Overscaling is a normal behavior on most TVs. We recommend using a TV that supports VGA or DVI connector, or enabling the dot-by-dot feature on your TV when connected with HDMI.

The table below identifies the possible and recommended connection type for the display device.

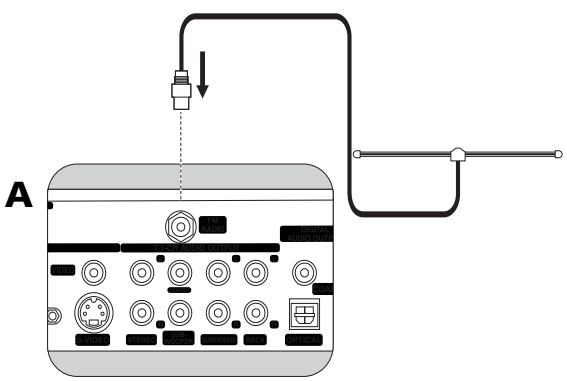
Display device type	Possible connection	Suggested connection Video + Audio	
HD-ready devices: Plasma TV, LCD TV, Projection TV (with DVI or HDMI input)	• DVI • HDMI • VGA • Component (YPbPr) • S-Video • Video	• DVI	• Y cable[1]
		• HDMI[2]	
		• DVI for video	• Multi-channel analog or digital audio to A/V receiver
HD-ready devices: Plasma TV, LCD TV, Projection TV (without DVI or HDMI input)	• VGA • Component (YPbPr) • S-Video • Video	• VGA	• Y cable[1]
		• Component	• Stereo cable for audio
		• VGA for video	• Multi-channel analog or digital audio to A/V receiver
		• Component (YPbPr)	• Multi-channel analog or digital audio to A/V receiver
Traditional SDTV	• SCART • S-Video • Video	• SCART	
		• S-Video with stereo cable	• Using S-Video's stereo cable
		• A/V cable	
LCD or CRT monitor	• DVI • VGA	• DVI	• Y cable[1]
		• DVI	• Multi-channel analog or digital audio to A/V receiver
		• VGA	• Y cable[1]

NOTE: 1 Use an extension cable to connect the Y cable to the display device's speaker input.
2 After connecting a device using HDMI, you can manually adjust the TV's resolution to 720p or 1080p mode. To manually adjust your TV resolution mode, first exit Media Center (see "Closing Media Center"). Use the wireless touch pad to click on the 720p or 1080p icon on Windows desktop. To change to the display mode, click **Yes** to confirm. Finally, open the Media Center (see "Opening Media Center").

Connecting to a TV Antenna or Cable



Connecting an FM Radio Antenna



Selecting an A/V Input Source

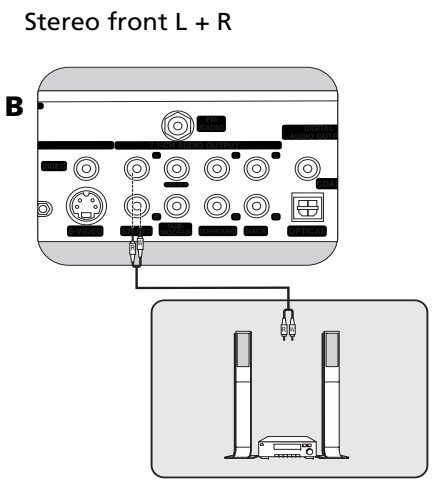
After connecting a display device to the system, you can run Media Center to setup the display device's input signal.

1. Open Media Center. See "Opening Media Center".
2. Select **My TV** > **More TV**.
3. AV-input Source Selection will show on the right side of the screen, choose an input source from the following options:
   - ❑ AV1/SCART1 - Video
   - ❑ AV1/SCART1 - S-Video
   - ❑ AV2 - Video
   - ❑ AV2 - S-Video
   - ❑ AV3/SCART2 - Video
   - ❑ AV3/SCART2 - S-Video

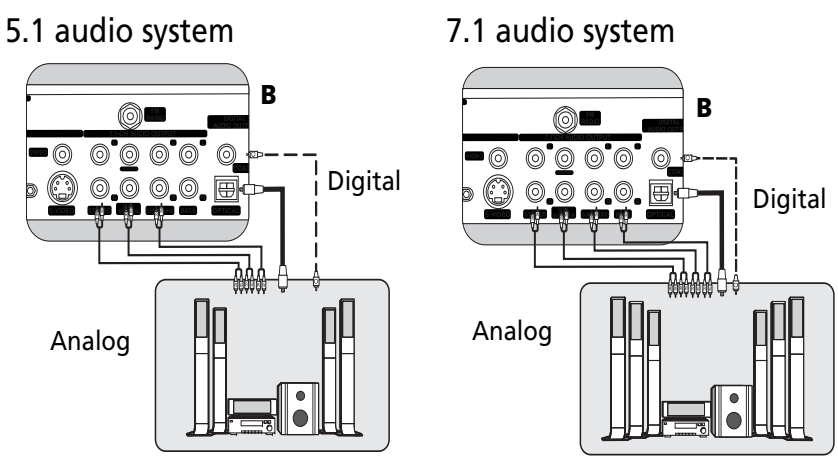
Connecting Audio Devices

The following illustrations show the different audio devices you can connect to the Aspire iDea.

Two Speakers



5.1 Audio System and 7.1 Audio System



NOTE: After you connect a 5.1 or 7.1 audio system, you must configure Media Center for multi-channel audio output. For more information, please refer to "To configure Media Center from multi-channel audio output:" on page 46 of user manual.

The table below identifies the hardware and software configuration for setting up and adjusting CD- or DVD-audio playback.

Sound track type	Hardware connection	Audio output setting (DVD)	Remark
Audio CD (with stereo sound track)	Audio (stereo)	Two speakers	Configure the Realtek HD Audio in Media Center. Set up audio output for two speakers.
	Digital	S/PDIF	

Sound track type	Hardware connection	Audio output setting (DVD)	Remark
DVD (with Dolby Digital AC-3 sound track)	7.1 or 5.1 channel audio	Eight or six speakers	Configure the Realtek HD Audio in Media Center. Set up audio output for eight or six speakers.
	Digital output	S/PDIF	To take advantage of Dolby Digital sound track, you need a Dolby Digital-equipped A/V receiver and speaker system with 5.1, 6.1 or 7.1 channels.
	2 channel stereo analog output	Two speakers	Configure the Realtek HD Audio in Media Center. Set up audio output for two speakers.
DVD (with DTS sound track)	Digital out	S/PDIF	To take advantage of DTS sound track, you need a DTS-equipped A/V receiver and speaker system with 5.1, 6.1 or 7.1 channels.

Configuring Audio Output Settings

After connecting Aspire iDea to your audio system, you can run Realtek HD Audio to set up and adjust the audio.

1. Open Media Center.
2. Select **More Programs** > **Realtek HD Audio**.
3. Select **Speaker configuration**.
4. For analog audio output, select the option describing the number of speakers connected to your system. For example, select 2 speakers if you have 2 speakers, 8 speakers if you have a 7.1 audio system and 6 speakers if you have a 5.1 audio system.
5. For digital audio output, the system default is to output audio source to both analog and digital. No special setting is needed.
6. To setup special surround sound effect, with the Realtek HD Audio, you can use the Dolby Digital Live or DTS connect to simulate 2-channel (stereo) sound into surround-sound effect.
   - Select **Dolby** and enable Dolby Digital Live. Dolby Digital Live encodes audio signals into a Dolby Digital 5.1 bitstream for multi-channel playback through surround sound system.
   - Select **DTS** and enable DTS Neo: PC or DTS interactive. DTS consists of DTS interactive and Neo: PC, for both multi-channel and stereo content. DTS interactive encodes audio signals into a DTS-compatible bitstream for multi-channel playback through a surround sound system. Neo: PC transforms stereo content, such as MP3, WMA, or CD audio, into 7.1-channel surround sound.
7. Press the **OK** button on the remote control or exit Media Center More Programs menu.

Setting up the Wireless Devices

Installing the Batteries in the Remote Control

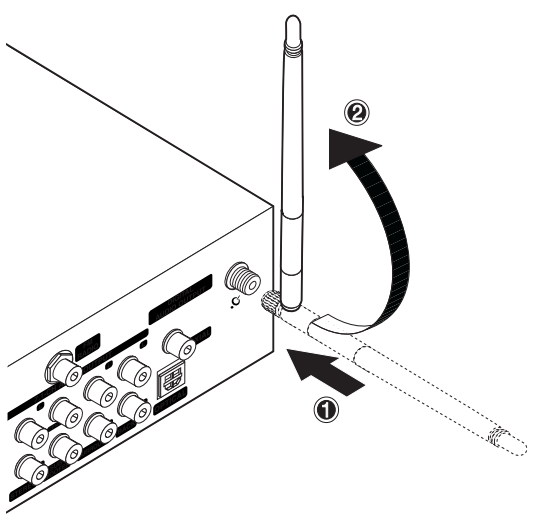
1. Remove the battery cover from the rear side of remote control.
2. Insert two AA batteries into the battery compartment.
3. Then attach the battery cover to the remote control.

Installing the Batteries in the Wireless Keyboard

1. Remove the battery cover from the bottom side of keyboard.
2. Insert two AA batteries into the battery compartment.
3. Then attach the battery cover to the keyboard.

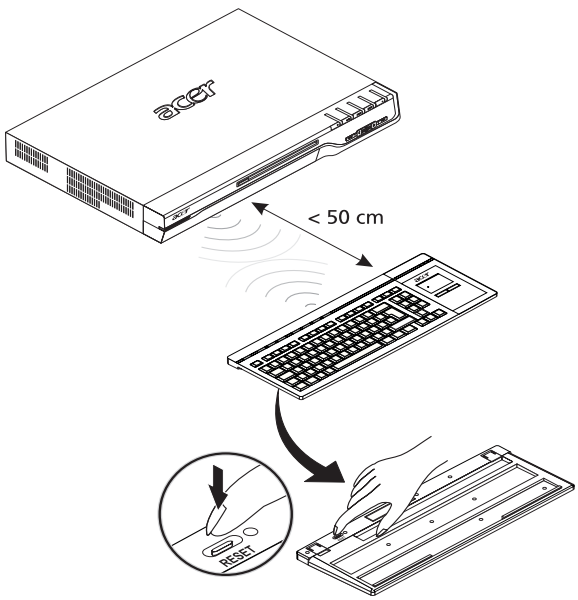
Installing the WLAN Antenna

1. Install antenna to the system by fastening the threaded end of the antenna into the WLAN antenna connector on the rear side of the system **(1)**.
2. Rotate the antenna clockwise until it gets tight.
3. Flip up the antenna **(2)**.



Synchronizing the Keyboard

On the bottom side of the keyboard, press and hold the Reset button until you see the green LED turns off. The keyboard's LED flashes green to indicate the keyboard is ready synchronize to the system and stops flashing indicating a successful sync.



Windows XP Media Center

Opening Media Center

After turning on the system, system will launch Media Center. When working within a Windows XP program, you can revert to Media Center by doing any of the following:

1. Press on the remote control.
2. Press the Stop and Play/Pause buttons simultaneously on the front panel.
3. On the Windows task bar, click **Start** > **All Programs** > **Accessories** > **Media Center**, then click **Media Center**.
4. On the Windows task bar, click **Start** > **Media Center**.

Media Center Home Page

The Media Center Home Page displays whenever you open the Media Center. Use the navigation or shortcut buttons on the remote control or the arrow keys on the keyboard to select an option in the Start Menu.

Item	Description
Play DVD	Plays your favorite DVDs.
Online Spotlight	Finds digital media content available for Media Center on the Internet, giving you access to the latest music, movies, trailers and news updates.
My Videos	Plays home videos or downloaded videos from the Internet.
My Pictures	Finds or sorts pictures stored in your system or view photos as a slide show.
My TV	Lets you watch or record live TV shows. Also allows you to pause and rewind up to 30 minutes of a live TV show.
My Music	Lets you browse, organize and play audio files or audio CDs.
Radio	Lets you listen to live radio programs. Also allows you to pause and rewind up to 30 minutes of live radio.
More Programs	Access the PSD, PnR, and other Media Center-enhanced programs available in your system. For more information, please refer to “Using accessory programs” of User’s Manual.

Item	Description
Settings	Access several settings that control how Media Center plays and records TV programs, plays DVDs, displays pictures, plays sound and displays Media Center pages.

Configuring Your Set-Top Box

To configure Media Center to properly recognize a set-top box:

1. On the Media Center Home Page, select **Setting**.
2. Select **TV** > **Set up TV signal in Media Center**.
3. On the TV signal screen, select **Next**.
4. Select **Yes** to confirm region detected by Media Center.
5. Choose your TV signal, then select **Next**.
6. If you have a set-top-box, select **Yes** > **Next**, then proceed to step 7. If not select **No** > **Next**.
7. Select the number of tuners you want to configure, then select **Next**.
8. Select the type of cable connected to the set-top box, then select **Next**.
9. Set up your remote control to work with your set-top box, then select **Next**.
10. Choose your TV signal, then select **Next**.
11. Choose **Yes** if you have a set-top box remote control, then select **Next**.
12. Choose the number of digits for the highest channel number you receive on your system, then select **Next**.
13. Specify how you change channels, then select **Next**.
14. Select your set-top box brand, then select **Next**.
15. Choose a remote control code, then select **Next**.
16. Use the numeric buttons on the remote control to try changing channels, then select **Next**.
17. Select a remote control IR signal speed, then choose the number of digits you receive in you TV signal, then select **Next**.
18. Select **Next** to confirm signal speed.
19. After you finished setting up your TV signal, you will be prompted to set up your program guide.

Closing Media Center

1. Press on the remote control to enter the Media Center Home Page.
2. Use the remote control to navigate to the Shut Down button on the upper left corner of the screen, then press **OK**. The Media Center shutdown window will appear and the optional items are Close Media Center, Log Off, Shut Down, Restart and Stand by.

WARNING: Never unplug the power cable when the system is in standby mode. Unplugging the power cable will cause irrecoverable errors to your system.

3. Select the desired item and press **OK**.

Acer eRecovery Management

WARNING: Always close the Media Center Edition before launching Acer eRecovery Management.

Acer eRecovery Management provides fast, reliable and safe method of restoring your computer to its factory default settings or user-defined system configuration from an image stored in a hidden hard disk drive partition, secondary partition or optical disks. Acer eRecovery Management also features an easy-to-use utility that backs up system settings, applications and data to the hard disk drive to the optical disks.

Launching Acer eRecovery Management

You can launch Acer eRecovery Management in three ways:

1. Click **Start > All Programs > Acer Empowering Technology > Acer eRecovery Management.**
2. Press <Alt> + <F10> on the keyboard.
3. Click on the Acer eRecovery Management icon in the Empowering Technology tool bar on the desktop.

Then Acer eRecovery Management main page will appear.

NOTE: During initial launch, the Acer eRecovery Management prompts you to create a password for your backup files. Follow screen instructions to continue.

Copying the Factory Default Settings Image

1. On initial launch, the utility prompts you to copy the factory default settings image saved in a hidden hard disk partition to an optical disk.

2. Insert the optical disk to the optical drive, then click **OK** to start burning. This function is disabled when the factory default setting image is copied, or when you check the **Don't remind me again** option.

Creating System Backups

Creating a Full Backup

You can create a full backup image of the current system configuration including all applications, drivers and data. Create a full backup before installing new hardware or software applications to protect your system and data.

WARNING: Creating a full backup erases the previous backup file in the hard disk drive.

By default, the utility saves the backup image into the secondary hard disk drive partition. If there is insufficient space, the option is grayed out and a warning will appear. Backing up the image into the HDD ensures easy system recovery, without the need for optical disks.

1. Click the **Backup** button at the bottom of the window, then click **Create**.
2. Select **Full backup (slow)**, then click **Next**.
3. Enter a description of the backup image, then click **Next**.
4. When prompted, close all running applications, select **Yes**, then click **Next**. The backup process starts. A message will appear when the backup process is finished, or when it fails.

Creating an Incremental Backup

Instead of a full system backup, you can create an incremental backup image of the current system configuration to save space. Regular incremental backups are recommended to protect your system and data, especially before installing a new hardware component or software application. You can create multiple incremental backup points on top of one another.

1. Click the **Backup** button at the bottom of the window, then click **Create**.
2. Select **Incremental backup (fast)**, then click **Next**.
3. Follow step 3 to step 4 of the previous section.

Deleting a User-Created Backup Point

You can delete a previously created backup image to free some HDD space. A confirmation message appears when you select this option. Click **Yes** to delete the backup image.

4. In the Acer eRecovery window, select **Recovery actions** and click **Next**.
5. Select the desired restore action and follow the instructions on screen to complete the restore process.

Copying to Disks

The Burn Disk function allows you to copy factory default settings images, backup images, current system configuration or application backups to a CD/DVD.

Using the Burn Disk Utility

1. Click the **Burn Disk** button.
2. Select an option from the **Burn Disk** window.

Burning a Backup Disk using Factory Default

The utility creates a backup disk containing the factory default settings. Select this option if you disabled copying the factory default settings image when you first launch the Acer eRecovery Management.

Burning a Backup Disk using User's Backup

The utility copies the user's backup image to the optical disk. You can restore the system to the desired backup point using this disk.

Copying Current System Configuration to Disk

The utility copies the current system configuration to the optical disk. This option creates a temporary backup point with the current system configuration without replacing the previous full backup point.

Burning an Application Backup Disk

The utility backs up all applications and drivers to the optical disk.

Restoring the System

The Restore function allows you to restore the system configuration using the factory default settings images, backup images, current system configuration or application backups copied in the CDs/DVDs.

Restoring System to Factory Default

Select to restore the computer to its original state. All previously installed programs and saved data will be lost. When selected, the computer reboots and restores the system from the image in the hidden hard disk drive partition.

Restoring System from User's Backup

This allows you to restore the system using the most recent backup image you created. When selected, the backup image information will appear below the option.

Recovering System from CD/DVD

This allows you to restore the system using the backup image on the optical disk. When selected, the computer reboots from the optical drive. The utility prompts you to insert the backup disk, if not loaded in the optical drive.

Reinstalling Applications/Drivers

This allows you to reinstall a damaged application or device driver. Acer eRecovery Management extracts the data from the hidden hard disk drive partition. This process may take a few minutes and may disable the keyboard and mouse to ensure system stability.

Other System Restore Modes

You may also restore the system from the WinPE environment or through the hidden partition main page.

Restoring the System from WinPE Environment

If the system fails to boot, you can restore the system from WinPE environment. The system boots from the hidden hard disk drive partition to start recovery.

NOTE: You are prompted to enter the password before system restore starts. Failure to enter the correct password three times reboots the computer to the operating system.

Hidden Partition Main Page

Press <Alt> + <F10> on the keyboard or the **Stop** and **Record** buttons on the front panel during POST to boot the system from the hidden hard disk drive partition and access the hidden partition main page.

NOTE: You must enter the password to access the hidden partition main page.

The hidden partition main page offers three options to restore the system: restore to factory default settings, restore from user's backup, or restore from backup CD/DVD.

Restoring System to Factory Default Settings

1. Select this option, then enter the password. The utility restores the system from the factory default settings image in the hidden hard disk drive partition.
2. When prompted, confirm system recovery. A message appears to tell you that you will lose all data on the drive. The utility then restores the system to its original state.

Restoring System to User's Backup

1. Select this option, then enter the password. The utility restores the system from the user's backup image in the second hard drive partition.
2. When prompted, confirm system recovery. A message will appear to inform you that you will lose all data on the primary partition. The utility then restores the system to the most recent user backup.

Restoring System from CD/DVD

1. Select this option, then enter the password. The utility restores the system from the user's backup image in the second hard drive partition.
2. When prompted, confirm system recovery. A message will appear to tell you that you will lose all data on the primary partition. The utility then restores the system to the most recent user backup.

Restoring System from CD/DVD

1. When selected, insert the first backup disk to the optical drive.
2. Confirm system recovery when prompted. A message will appear to tell you that you will lose all data on the primary partition. The utility then restores the system from the backup image in the CD/DVD.
3. Insert the other disks when prompted.

NOTE: If you are restoring the system to its factory default settings saved in CDs/DVDs, Acer eRecovery Management prompts you to insert disk 2 to start.

Acer ePerformance Management

NOTE: Always close the Media Center Edition program before launching Acer ePerformance Management.

Acer ePerformance Management offers you a simple-to-use tool to maximize your PC's performance.

Acer ePerformance Management enables you to optimize your PC's memory, check memory usage to see if an upgrade is needed, optimize your HDD, and perform other functions to enhance the computer's bootup, shutdown and network performance.

You can launch Acer ePerformance Management in two ways:

1. On the Windows task bar, click **Start** > **(All) Programs** > **Empowering Technology** > **Acer ePerformance Management**.
2. Click on the Acer ePerformance Management icon n the **Empowering Technology** tool bar from your desktop which can be shown by pressing the Empowering Key.

This will open the Acer ePerformance Management main page.

Acer ePerformance Management Main Page

The Acer ePerformance Management main page allows you to **Execute Express Optimization** to quickly optimize your system.

Click **Show** at the bottom of the page to display the advanced optimization options: **Memory**, **Disk** and **Speed**.

Memory Optimization

Here, you can view your system's current memory usage. You can also optimize the memory usage by clicking **Optimize**.

Memory Usage Check

When using your computer, you can check to see if a memory upgrade is advised by clicking **Check**. For the most accurate results, check memory usage when your computer is in a normal working setting - checking just after bootup, for example, will not yield an accurate report.

Speed Optimization

The five functions listed under Speed Optimization improve the overall performance of your computer.

1. **Turbo Startup** streamlines the startup process for faster booting.
2. **Turbo Shutdown** streamlines the shutdown process.
3. **Performance Enhancement** improves general performance.
4. **Disk Defragmentation** defragments the HDD while your computer is idle.
5. **Network Booster** improves network performance.

Hardware Specification and Configuration

Major Chips

Item	Specification
System Core Logic	• Intel 945GT • Intel ICH7M-DH
Super I/O Controller	ITE8716F
LAN Controller	Intel 82573L
Memory Controller	Intel 945GT
IDE Controller	Intel ICH7M-DH
Audio Controller	Realtek ALC883DD
Graphics	• Chip: Intel Gen 3.5 Integrated Graphic Engine • Transmitter for DVI-I (HDCP): Chrontel 7313A • Transmitter for HDMI: Silicon Image 1390
Card Reader controller	ND3266
IEEE 1394 controller	Ti TSB43AB22A
USB 2.0	ICH7M-DH
USB HUB	GL850A
System BIOS	PMC PM49FL004T
Clock generator	ICS 580148

Processor

Item	Specification
Type	Intel® Yonah dual core processor
Package	479 uFCPGA
Core Speed / Host Bus Speed	❑ 533 MT/s ❑ 667 MT/s

BIOS

Item	Specification
BIOS code programmer	Award
BIOS version	R01-A1
BIOS ROM size	4MB
BIOS ROM package	32-pin PLCC package
Support protocol	PCIX 1.0, PCI 2.2, APM 1.2, VESA/DPMS (VBE/PM V1.1), SMBIOS 2.3, E-IDE 1.1, ACPI 1.0b, ESCD 1.03, PnP 1.0a, Bootable CD-ROM 1.0, UHCI 1.0, ANSI ATA 3.0 ATAPI
Boot from CD-ROM feature	Yes
LS-120 drive support	Yes
BIOS boot block feature	Yes
BIOS password control	Yes

BIOS Hotkey

Hotkey	Function	Description
DEL	Access to BIOS Setup Utility	Press while the system is booting to enter BIOS Setup Utility.

AC'97 Audio Codec ALC883DD

Item	Description
Feature	❑ High performance DACs with 95Db S/N ratio ❑ Meets performance requirements for audio on PC2001 systems ❑ Eight channels of DAC support 16/20/24bit PCM format for 7.1 audio solution ❑ 48-pin LQFP package

Wake-Up Event Specification

Devices	S1 (Idle)	S3 (Suspend to RAM)	S4 (Suspend to Disk)	S5 (Shut down)
Power Button	Enabled	Enabled	Enabled	Enabled
USB Keyboard	Enabled	Enabled	Disabled	Enabled
WOL (wake on LAN)	Disabled	Disabled	Disabled	Disabled
RTC (real time clock)	Disabled	N/A	Disabled	Disabled

System Memory

Item	Specification
Feature	❑ Dual channel support ❑ Maximum memory size Two GB ❑ Two soDIMM sockets ❑ 256/512MB or One GB support per slot ❑ Memory voltage support: 1.8V ❑ 533/667MHz unbuffered module ❑ Error correction code (ECC) feature: yes ❑ Memory module combinations: You can install memory modules in any combination as long as they match the above specification.

LAN Interface

Item	Specification
Feature	❑ Intel 82573L (Vidalia) PCI-E x1 GbE LAN controller ❑ Controller resident bus: PCI bus ❑ One RJ-45 on board ❑ Enabled or Disabled by BIOS setup

IDE Interface

Item	Specification
Controller	Intel ICH7M-DH with PATA and SATA controller
40-pin PATA slot	❑ Quantity: one ❑ Device type support: HDD / CD-ROM / CD-RW / DVD-ROM / Combo, DVD burner ❑ Transfer rate support: PIO 0/1/2/3/4 ❑ ATA mode: 33/66/100
SATA IDE slot	❑ Quantity: one ❑ Max. data rate will be 3.0 Gb/sec.
LS-120 support	Yes
Bootable CD-ROM support	Yes
Function control	Enabled or Disabled by BIOS setup

ODD Interface

Item	Specification	
Vendor and Model name	Panasonic UJ-845	
Performance Specification		
Transfer rate (MB/s.)		
	READ	**WRITE**
DVD-ROM (single layer)	3.3X to 8X CAV 4.3 MB/s. to 10.5 MB/s.	-
DVD-ROM (dual layer)	2.5X to 6X CAV 3.3 MB/s. to 7.9 MB/s.	-
DVD-R 4.7GB	2.5X to 6X CAV 3.3 MB/s. to 7.9 MB/s.	2X to 8X Z-CLV 2.6 MB/s. to 10.5 MB/s.
DVD-R 3.95GB	2.5X to 6X CAV 3.3 MB/s. to 7.9 MB/s.	-
DVD-RW 4.7GB	2.5X to 6X CAV 3.3 MB/s. to 7.9 MB/s.	2X to 4X Z-CLV 2.6 MB/s. to 5.3 MB/s.
DVD-RAM 4.7GB	3X to 5X Z-CLV 3.9 MB/s. to 6.5 MB/s.	3X to 5X Z-CLV 3.9 MB/s. to 6.5 MB/s.
+R (single layer)	2.5X to 6X CAV 3.3 MB/s. to 7.9 MB/s.	2.4X to 8X Z-CLV 3.2 MB/s. to 10.5 MB/s.
+R (dual layer)	2.5X to 6X CAV 3.3 MB/s. to 7.9 MB/s.	2.4X CLV 3.2 MB/s.
+RW	2.5X to 6X CAV 3.3 MB/s. to 7.9 MB/s.	2.4X to 4X Z-CLV 3.2 MB/s. to 5.3 MB/s.
CD-ROM	10.3X to 24X CAV 1550 KB/s. to 3600 KB/s.	-
CD-R	10.3X to 24X CAV 1550 KB/s. to 3600 KB/s.	8X to 24X Z-CLV 1200 KB/s. to 3600 KB/s.
CD-RW	10.3X to 24X CAV 1550 KB/s. to 3600 KB/s.	10X CLV 1500 KB/s.
DVD-Video	4X CAV	-
CD-DA (Audio Play)	12X CAV	-
CD-DA (Read)	20X CAV	-
Video-CD	20X CAV	-
Applicable disc format		
	READ	**WRITE**
	• CD-Audio, CD-ROM, CD-ROM XA, CD-I, CD-I Ready, Cd-I Bridge, CD-R, CD-RW, Photo CD, Video CD, Enhanced Music CD, CD-TEXT • DVD-5, DVD-9, DVD-10, DVD-18, DVD-R (3.95GB/4.7GB), DVD-RW, DVD-RAM (4.7GB), +R, +RW	• DVD-RAM, DVD-R 4.7GB, DVD-RW, +R, +RW • CD-R, CD-RW

USB Interface

Item	Specification
Controller	Intel ICH7M-DH
Universal HCI	USB 2.0
Location and quantity	From ICH7M-DH: • Two-port stack USB connector on rear side • Two-port stack USB port connector on front panel • One USB port for Card reader (ND3266) • One USB port for RF connector • One USB port for bluetooth connector • One USB port for USB hub (GL850A) From USB hub GL850A • One USB port for VFD display (WT6563F) • One USB port for IR control • One USB port for button control

Environment Requirements

Item	Specification
Temperature	
Operating	+10°C ~ +35°C
Non-operating	-20°C ~ +60°C (storage packed), -10°C ~ +60°C (unpacked)
Humidity	
Operating	20% to 80% RH, non-condensing
Non-operating	20% to 80% RH, non-condensing (unpacked) 20% to 80% RH, non-condensing (Storage package)
Vibration	
Operating	5 ~ 500Hz, 2.20g RMS random, 10 minutes per axis in all three axes
Non-operating	5 ~ 500Hz, 1.09g RMS random, one hour per axis in all three axes

Drop Test

Package Gross Weight (KG/lbs)	Drop Height (cm/inch)	No. of Drop
0 ~ 9.1 (0 ~ 20)	76/30	10
9.1 ~ 18.2 (20 ~ 40)	61/24	10
18.2 ~ 27.3 (40 ~ 60)	46/18	10
27.3 ~ 45.4 (60 ~ 100)	31/12	10
10 drops: one corner, three edges, six surfaces		

NOTE: The protection ability of package and cushion must be capable of withstanding, with no physical or

functional damage, mechanical impact from height-specified drops.

Power Management Function (ACPI Support Function)

Device Standby Mode

- Independent power management timer for hard disk drive devices (zero to 15 minutes, time step = one minute).
- Hard disk drive goes into Standby mode (for ATA standard interface).
- Disable V-sync to control the VESA DPMS monitor.
- Resume method: device activated (keyboard for DOS, keyboard & mouse for Windows).
- Resume recovery time: three to five seconds.

Global Standby Mode

- Global power management timer (two to 120 minutes, time step = 10 minutes).
- Hard disk drive goes into Standby mode (for ATA standard interface).
- Disable H-sync and V-sync signals to control the VESA DPMS monitor.
- Resume method: return to original state by pushing external switch button, modem ring in, keyboard and mouse for APM mode.
- Resume recovery time: seven to 10 seconds.

Suspend Mode

- Independent power management timer (two to 120 minutes, time step = 10 minutes) or pushing external switch button.
- CPU goes into SMM.
- CPU asserts STPCLK# and goes into the Stop Grant state.
- LED on the panel turns amber colour.
- Hard disk drive goes into SLEEP mode (for ATA standard interface).
- Disable H-sync and V-sync signals to control the VESA DPMS monitor.
- Ultra I/O and VGA chip go into power saving mode.
- Resume method: return to original state by pushing external switch button, modem ring in, keyboard and mouse for APM mode.
- Return to original state by pushing external switch button, modem ring in and USB keyboard for ACPI mode.

ACPI

- ACPI specification 1.0b
- S0, S1, S3 and S5 sleep state support
- Onboard device power management support
- Onboard device configuration support

Setup Utility

About the Setup Utility

The computer uses the Phoenix-Award BIOS (Basic Input and Output System) with support for Windows Plug and Play. The CMOS chip on the main board contains the ROM setup instructions for configuring the main board BIOS.

The BIOS Setup Utility displays the system's configuration status and provides you with options to set system parameters. The parameters are stored in Battery-backed-up CMOS RAM that saves this information when the power is turned off. When the system is turned back on, the system is configured with the values you have stored in CMOS.

The settings made in the Setup Utility affect how the computer performs. Before using the Setup Utility, ensure that you understand the Setup Utility options.

The Standard Configuration

A standard configuration has already been set in the Setup Utility. However, it is recommended that you read this chapter in case you need to make any changes in the future.

This Setup Utility should be used:

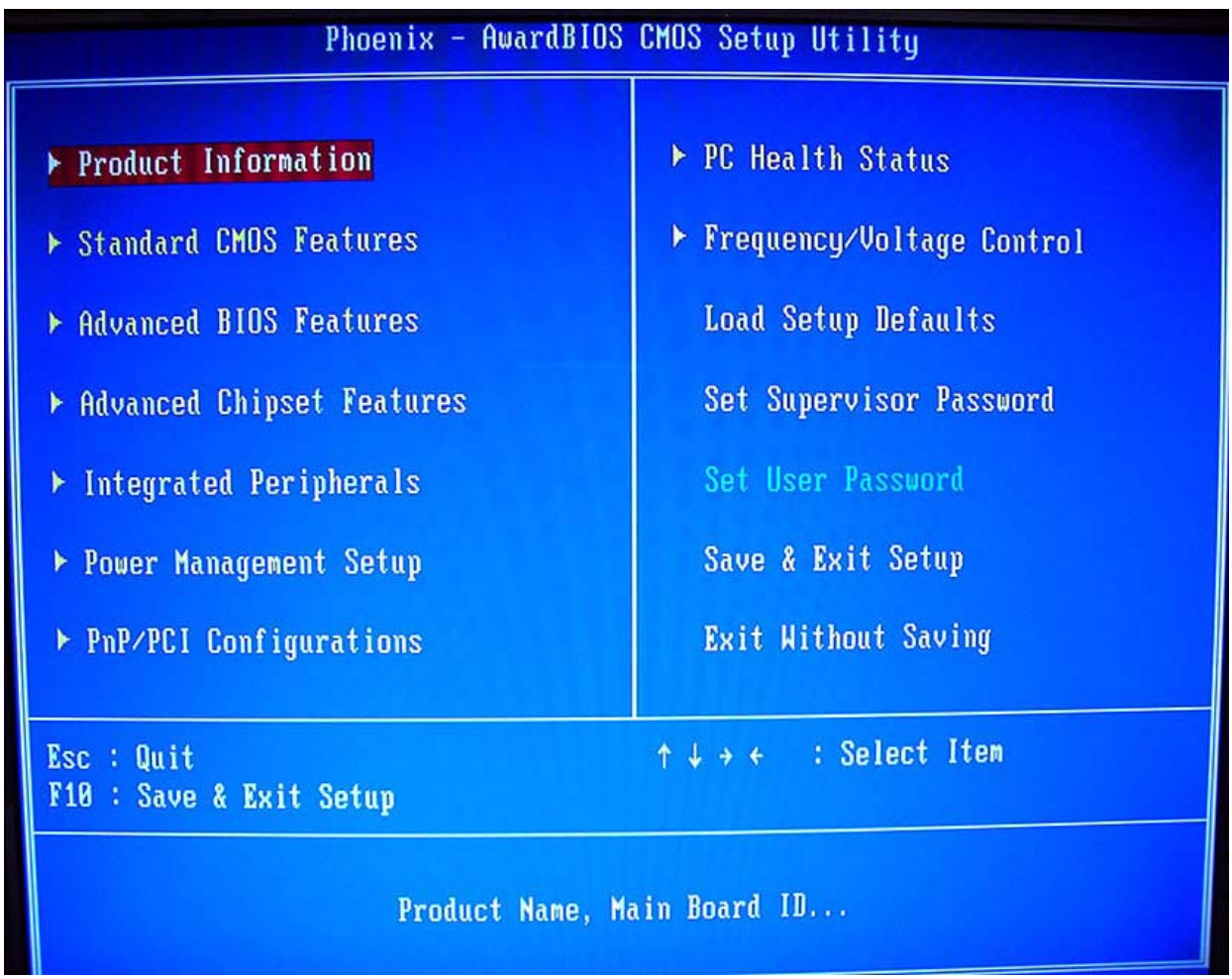
- when changing the system configuration
- when a configuration error is detected and you are prompted to make changes to the Setup Utility
- when trying to resolve IRQ conflicts
- when making changes to the Power Management configuration
- when changing the password or making other changes to the Security Setup

Entering the Setup Utility

When you power on the system, BIOS enters the Power-On Self Test (POST) routines. POST is a series of built-in diagnostics performed by the BIOS. After the POST routines are completed, the following message will appear:

Press DEL to enter SETUP

Press the delete key to enter the BIOS Setup Utility.



BIOS Navigation Keys

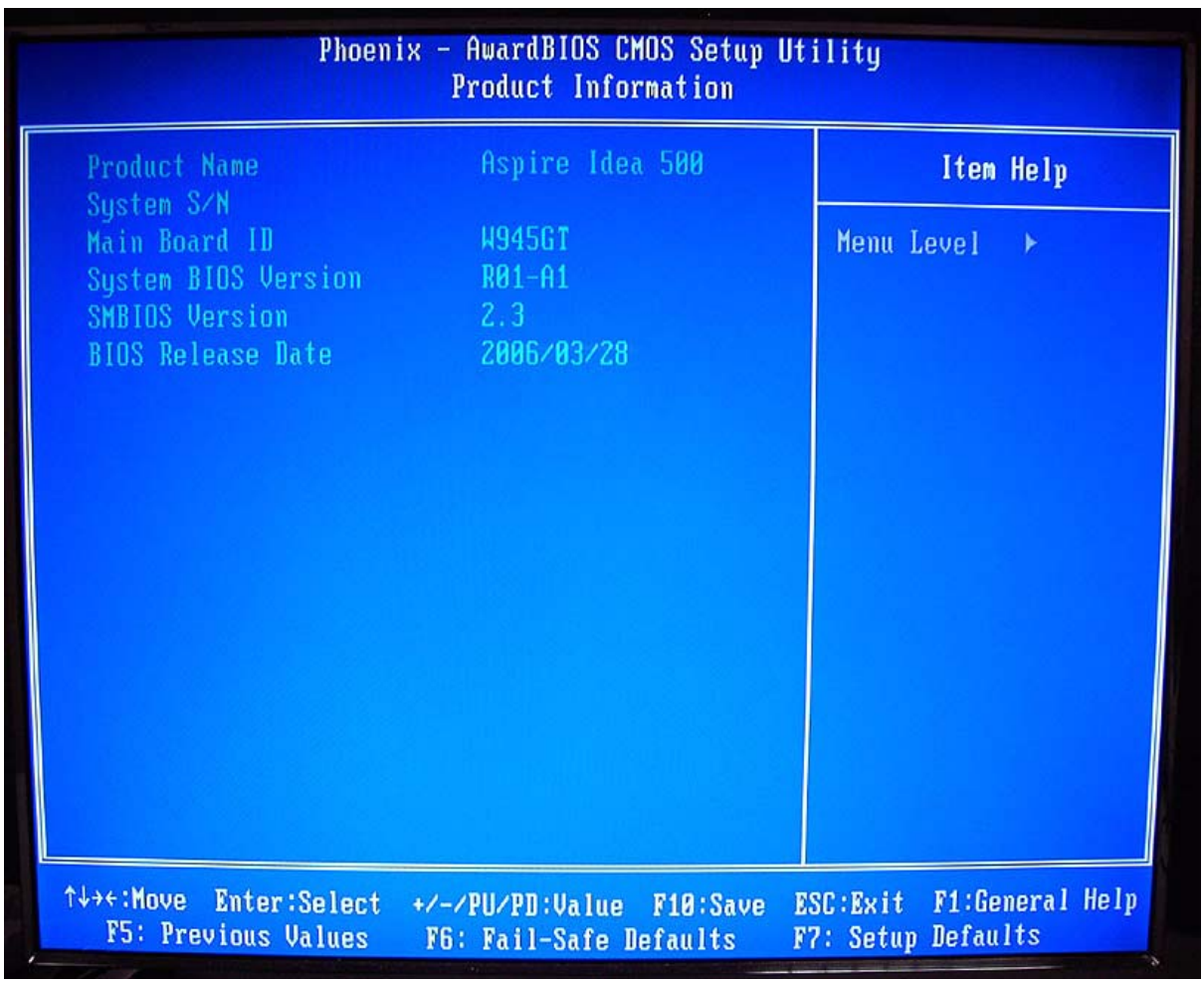
The BIOS navigation keys are listed below.

Key	Function
ESC	Exits the current menu
←↑↓→	Scrolls through the items on a menu
+/-/PU/PD	Modifies the selected field's values
F10	Saves the current configuration and exits setup
F1	Displays a screen that describes all key functions
F5	Loads previously saved values to CMOS
F6	Loads a minimum configuration for troubleshooting

Key	Function
F7	Loads an optimum set of values for peak performance

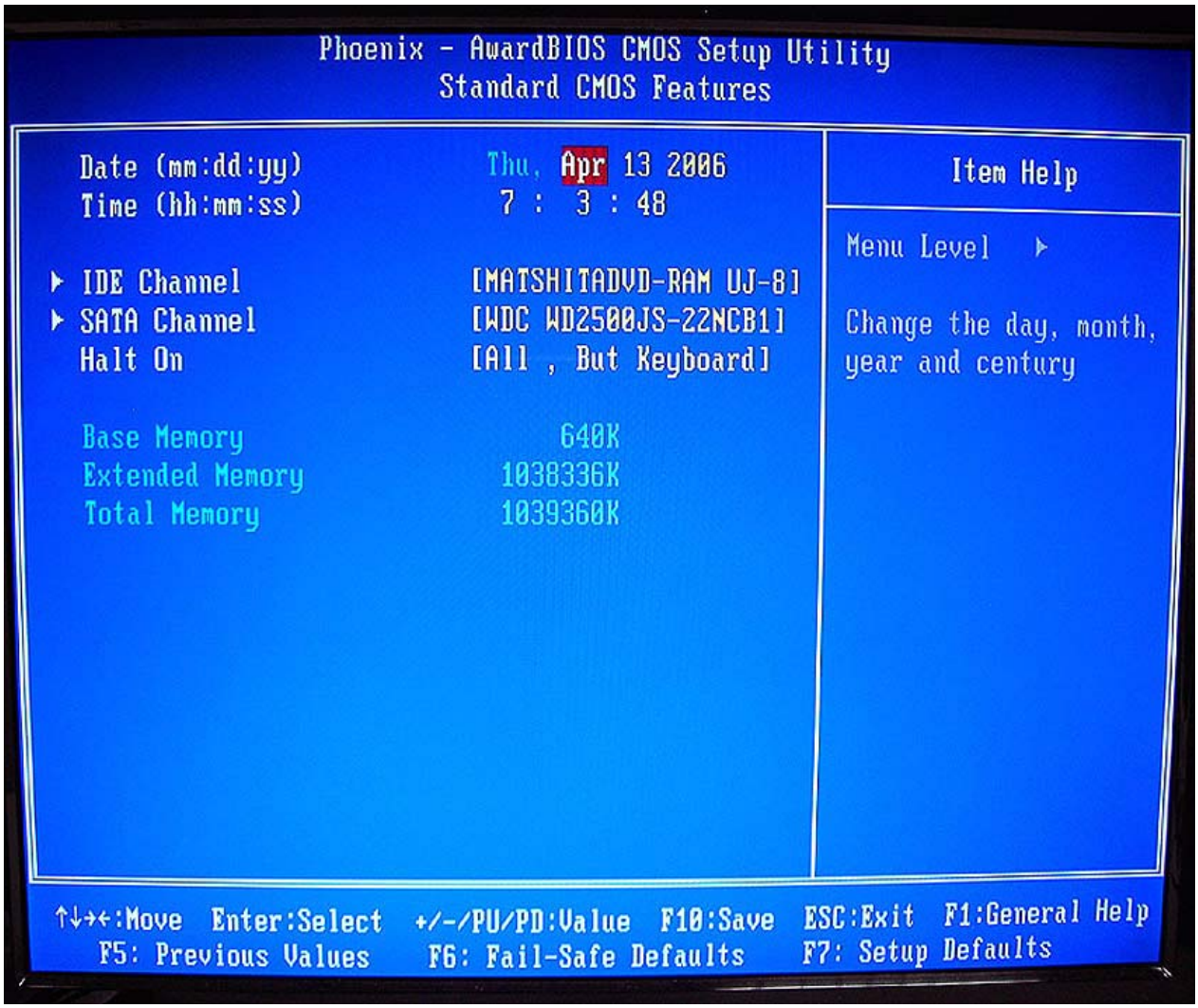
Product Information

This option displays product information about your system. You can press <Esc> to return to the main menu setting page.



Standard CMOS Features

This option displays basic information about the system.


Phoenix - AwardBIOS CMOS Setup Utility
Standard CMOS Features
Date (mm:dd:yy) Thu, Apr 13 2006
Time (hh:mm:ss) 7 : 3 : 48
IDE Channel [MATSHITADVD-RAM UJ-8]
SATA Channel [WDC WD2500JS-22NCB1]
Halt On [All , But Keyboard]
Base Memory 640K
Extended Memory 1038336K
Total Memory 1039360K
Item Help
Menu Level
Change the day, month, year and century
↑↓→←:Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help
F5: Previous Values F6: Fail-Safe Defaults F7: Setup Defaults

Date and Time

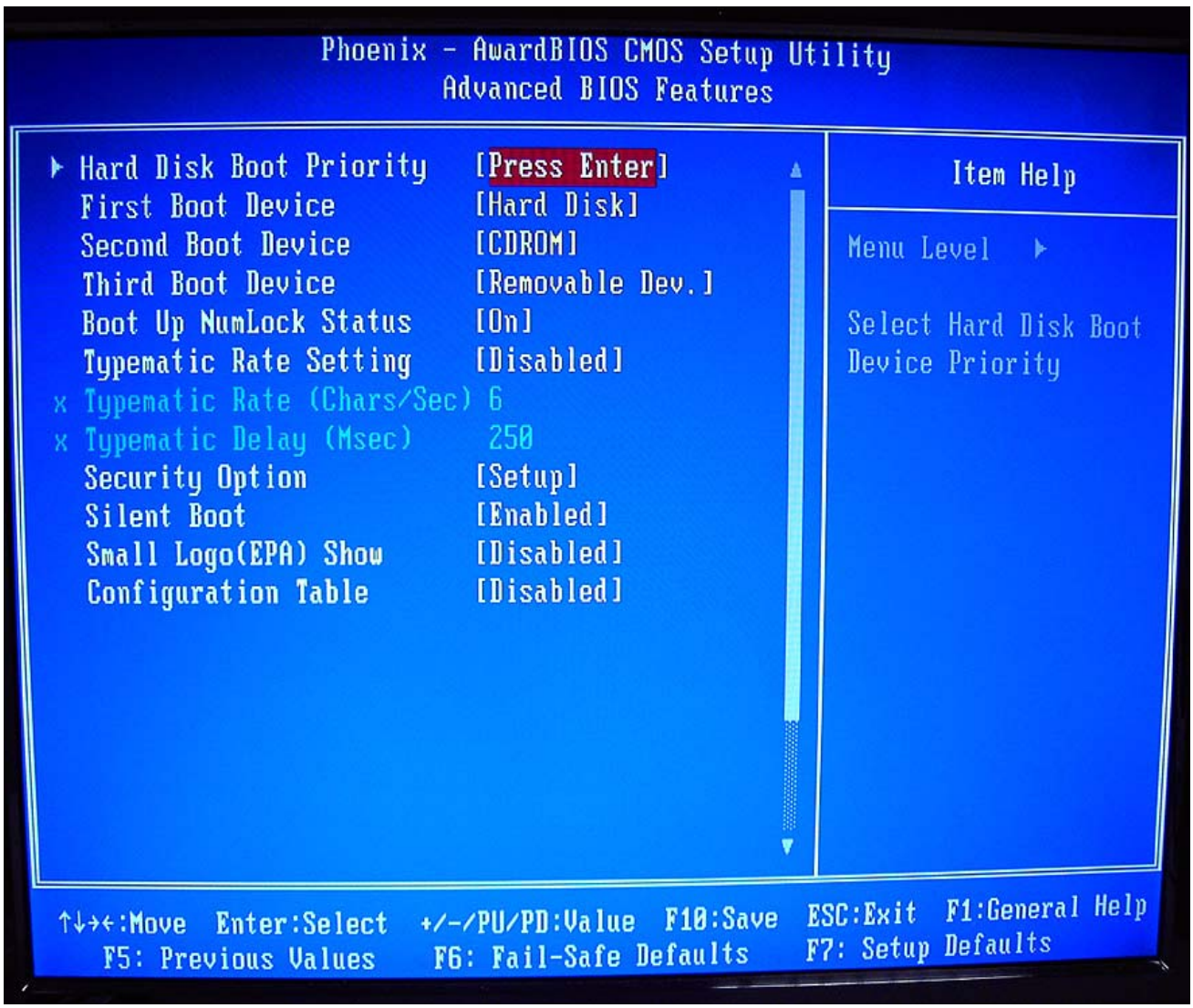
The Date and Time items show the current date and time set on the computer. If you are running a Windows OS, these items are automatically updated whenever you make changes to the Windows Date and Time Properties utility.

IDE Devices

Your computer has one IDE channel and one SATA connector supporting one SATA drive. SATA refers to Serial ATA (Advanced Technology Attachment), the standard interface for the IDE hard drives which are currently used in most PCs.

Advanced BIOS Features

This option defines advanced information about your system.


Phoenix - AwardBIOS CMOS Setup Utility
Advanced BIOS Features
Hard Disk Boot Priority [Press Enter]
First Boot Device [Hard Disk]
Second Boot Device [CDROM]
Third Boot Device [Removable Dev.]
Boot Up NumLock Status [On]
Typematic Rate Setting [Disabled]
x Typematic Rate (Chars/Sec) 6
x Typematic Delay (Msec) 250
Security Option [Setup]
Silent Boot [Enabled]
Small Logo(EPA) Show [Disabled]
Configuration Table [Disabled]
Item Help
Menu Level
Select Hard Disk Boot Device Priority
↑↓→←:Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help
F5: Previous Values F6: Fail-Safe Defaults F7: Setup Defaults

Hard Disk Boot Priority

Scroll to this item and press <Enter> to view the following screen.

First / Second / Third Boot Device

Use this three items to select the priority and order of the devices that your system searches for an operating system at start-up time.

Boot Up NumLock Status

This item defines if the keyboard NumLock key is active when your system is booted.

Typematic Rate Setting

If this item is enabled, you can use the following two items to set the typematic rate and the typematic delay settings for your keyboard.

- Typematic Rate (Char/Sec): Use this item to define how many characters per second are generated by a held-down key.
- Typematic Delay (Msec): Use this item to define how many milliseconds must elapse before a held-down key begins generating repeat characters.

Security Option

If you have installed password protection, this item defines if the password is required at system start up, or if it is only required when a user tries to enter the Setup Utility.

Silent Boot

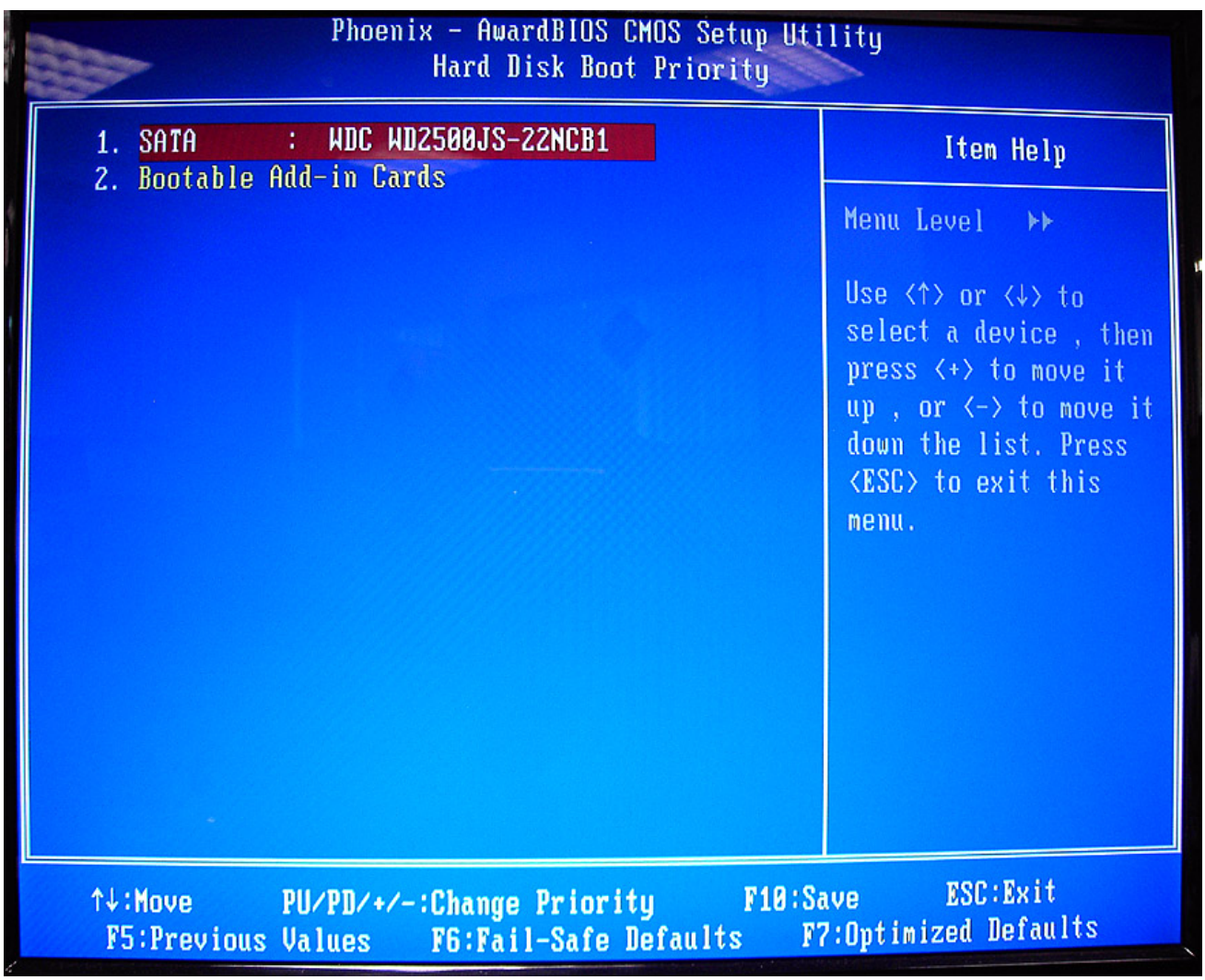
This item enables or disables the Silent Boot function.

Small Logo (EPA) Show

This item enables or disables the display of the EPA logo during boot.

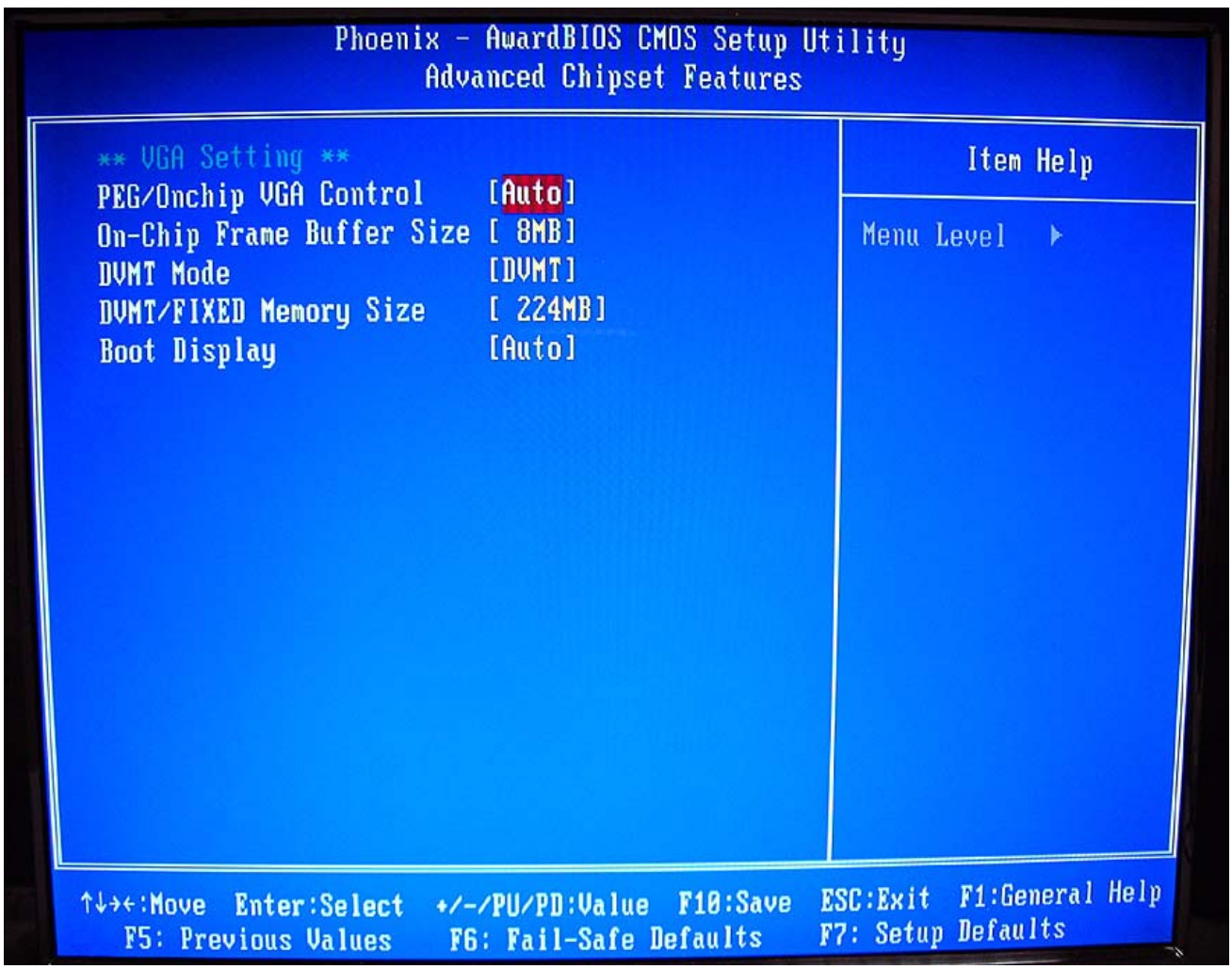
Configuration Table

This item enables or disables the Configuration Table in BIOS setting.


Phoenix - AwardBIOS CMOS Setup Utility
Hard Disk Boot Priority
1. SATA : WDC WD2500JS-22NCB1
2. Bootable Add-in Cards
Item Help
Menu Level ▸▸
Use ⟨↑⟩ or ⟨↓⟩ to select a device , then press ⟨+⟩ to move it up , or ⟨-⟩ to move it down the list. Press ⟨ESC⟩ to exit this menu.
↑↓:Move PU/PD/+/-:Change Priority F10:Save ESC:Exit
F5:Previous Values F6:Fail-Safe Defaults F7:Optimized Defaults

Advanced Chipset Features

These items define critical timing parameters of the main board. You should set these items for their default values unless you are very familiar with the technical specification of your system hardware. If you change the values incorrectly, you may introduce fatal errors or recurring instability into your system.


Phoenix - AwardBIOS CMOS Setup Utility
Advanced Chipset Features
** VGA Setting **
PEG/Onchip VGA Control [Auto]
On-Chip Frame Buffer Size [8MB]
DVMT Mode [DVMT]
DVMT/FIXED Memory Size [224MB]
Boot Display [Auto]
Item Help
Menu Level
↑↓→←:Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help
F5: Previous Values F6: Fail-Safe Defaults F7: Setup Defaults

PEG / OnChip VGA Control

This item allows you to choose the primary display card.

Onchip Frame Buffer Size

This allows you to set the VGA frame buffer size.

DVMT Mode

DVMT is Dynamic Video Memory Technology. This item helps you select video mode.

Integrated Peripherals

These options display items that define the operation of peripheral components on the system's input/output ports.

Phoenix - AwardBIOS CMOS Setup Utility
Integrated Peripherals
USB Controller [Enabled]
USB 2.0 Controller [Enabled]
USB Keyboard Support [Enabled]
Azalia/AC97 Audio Select Azalia
Onboard Lan Boot ROM [Disabled]
Onboard LAN Controller [Enabled]
Onboard 1394 Controller [Enabled]
Item Help
Menu Level
↑↓→←:Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help
F5: Previous Values F6: Fail-Safe Defaults F7: Setup Defaults

USB Controller

You can enable or disable the onboard USB controller. We recommend users to keep the default value. Disabling it might cause the USB devices not to work properly.

USB 2.0 Controller

This item enables or disables the onboard USB 2.0.

USB Keyboard Support

You can enable this item if you want to use a keyboard connected through the USB port in a legacy operating system (such as DOS) that does not support Plug and Play.

Azalia/AC97 Audio Select

It serves to enable or disable the onboard Azalia/AC97 audio function. You can disable this item if you are going to install a PCI audio add-on card.

Onboard LAN Boot ROM

This item allows you to enable or disable the onboard LAN Boot ROM function.

Onboard LAN Controller

This item allows users to enable or disable the onboard LAN Controller function.

Onboard 1394 Controller

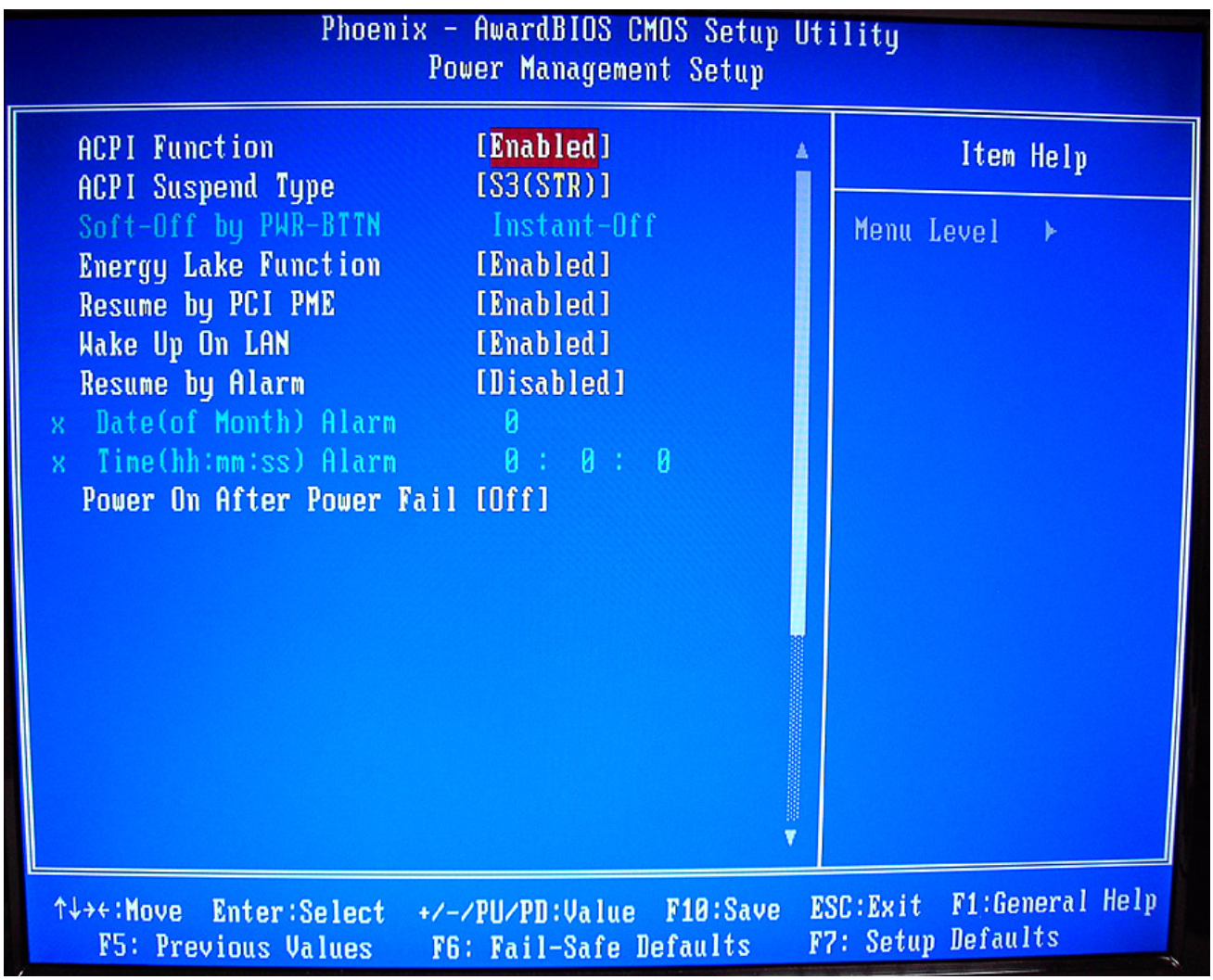
This item allows users to enable or disable the onboard 1394 Controller function.

Power Management Setup

The system has various power-saving modes including powering down the hard disk, turning off the video, suspending to RAM, and software power down that allows the system to be automatically resumed by certain events.

The power-saving modes can be controlled by time-outs. If the system is inactive for a while, the time-outs begin counting. If the inactivity continues so that the time-out period elapses, the system enters a power-saving mode. If any item in the list of Reload Global Timer Events is Enabled, then any activity on that item will reset the time-out counters to zero.

If the system is suspended or has been powered down by software, it can be resumed by a wake up call that is generated by incoming traffic to a modern, a LAN card, a PCI card, or a fixed alarm on the system real-time clock.


Phoenix - AwardBIOS CMOS Setup Utility
Power Management Setup
ACPI Function [Enabled]
ACPI Suspend Type [S3(STR)]
Soft-Off by PWR-BTTN Instant-Off
Energy Lake Function [Enabled]
Resume by PCI PME [Enabled]
Wake Up On LAN [Enabled]
Resume by Alarm [Disabled]
x Date(of Month) Alarm 0
x Time(hh:mm:ss) Alarm 0 : 0 : 0
Power On After Power Fail [Off]
Item Help
Menu Level
↑↓→←:Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help
F5: Previous Values F6: Fail-Safe Defaults F7: Setup Defaults

ACPI Function

This item allows users to enable or disable the ACPI power management function.

ACPI Suspend Type

You can use this item to define how your system suspends. In the default, S3 (STR), the suspend mode is a suspend to RAM, i.e., the system shuts down with the exception of a refresh current to the system memory.

Soft-Off by PWR-BTTN

Under ACPI (Advanced Configuration and Power Management Interface) you can create a software power down. In a software power down, the system can be resumed by Wake Up Alarms. This item lets you install a software power down that is controlled by the power button on your system. If the item is set for Instant-Off, then the power button causes a software power down. If the item is set for Delay four Sec., then you have to hold the power button down for four seconds to cause a software power down.

Energy Lake Function

This item enables or disables the Energy Lake Function.

Resume by PCI PME

This item specifies whether the system will be awakened from power-saving modes when activity or input signal of the specified hardware peripheral or component is detected.

Wake Up On LAN

When it is set for Enabled, you can remotely wake up a PC in Soft-Off condition via a LAN card that supports the wake up function.

Resume by Alarm

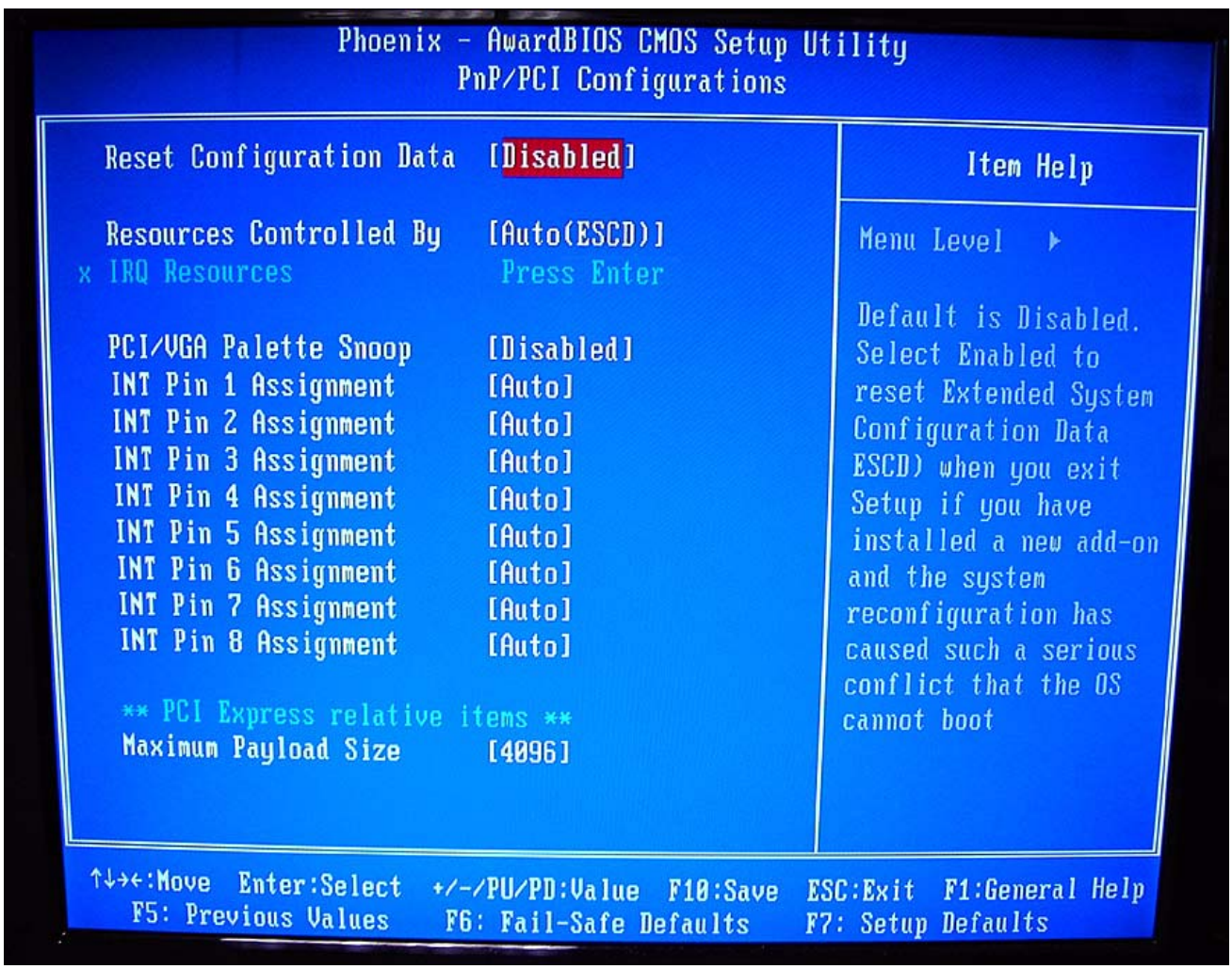
When it is set for Enabled, additional fields become available and you can set the date, hour, minute and second to turn on your system. When it is set for zero in the column of date, the alarm will power on your system every day at the specified time.

Power On After Power Fail

This item enables your computer to automatically restart or return to its last operating status after power returns from power failure.

PnP/PCI Configuration

It configures how PnP (Plug and Play) and PCI expansion cards operate in your system. Both the ISA and PCI buses on the main board use system IRQs (interrupt requests) and DMAs (direct memory access). You must set up the IRQ and DMA assignments correctly through the PnP/PCI Configurations Setup Utility for the main board to work properly. Selecting PnP/PCI Configurations on the main program screen displays the menu below.


Phoenix - AwardBIOS CMOS Setup Utility
PnP/PCI Configurations
Reset Configuration Data [Disabled]
Resources Controlled By [Auto(ESCD)]
x IRQ Resources Press Enter
PCI/VGA Palette Snoop [Disabled]
INT Pin 1 Assignment [Auto]
INT Pin 2 Assignment [Auto]
INT Pin 3 Assignment [Auto]
INT Pin 4 Assignment [Auto]
INT Pin 5 Assignment [Auto]
INT Pin 6 Assignment [Auto]
INT Pin 7 Assignment [Auto]
INT Pin 8 Assignment [Auto]
** PCI Express relative items **
Maximum Payload Size [4096]
Item Help
Menu Level ▶
Default is Disabled. Select Enabled to reset Extended System Configuration Data ESCD) when you exit Setup if you have installed a new add-on and the system reconfiguration has caused such a serious conflict that the OS cannot boot
↑↓→←:Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help
F5: Previous Values F6: Fail-Safe Defaults F7: Setup Defaults

Reset Configuration Date

If you enable this item and restart the system, any Plug and Play configuration data stored in the BIOS Setup will be cleared from memory.

Resources Controlled By Auto

You should set this item for the default Auto (ESCD). Under this setting, the system dynamically allocates resources to Plug and Play devices as they are required. If you can not get a legacy ISA expansion card to work properly, you might be able to solve the problem by changing this item to Manual, and then opening up the IRQ Resources submenu.

- IRQ Resource: In the IRQ Resource submenu, if you assign an IRQ to Legacy ISA, the Interrupt Request Line is reserved for a legacy ISA expansion card. Press <Esc> to

close the IRQ Resource submenu. In the Memory Resources submenu, use the first item Reserved Memory Base to set the start address of the memory you want to reserve for the ISA expansion card. Use the section item Reserve Memory Length to set the amount of reserved memory. Press <Esc> to close the Memory Resources submenu.

PCI/VGA Palette Snoop

This item is designed to overcome problems that can be caused by some non-standard VGA cards. This board includes a built-in VGA system that does not require palette snooping so you must leave this item disabled.

INT Pin 1-8 Assignment

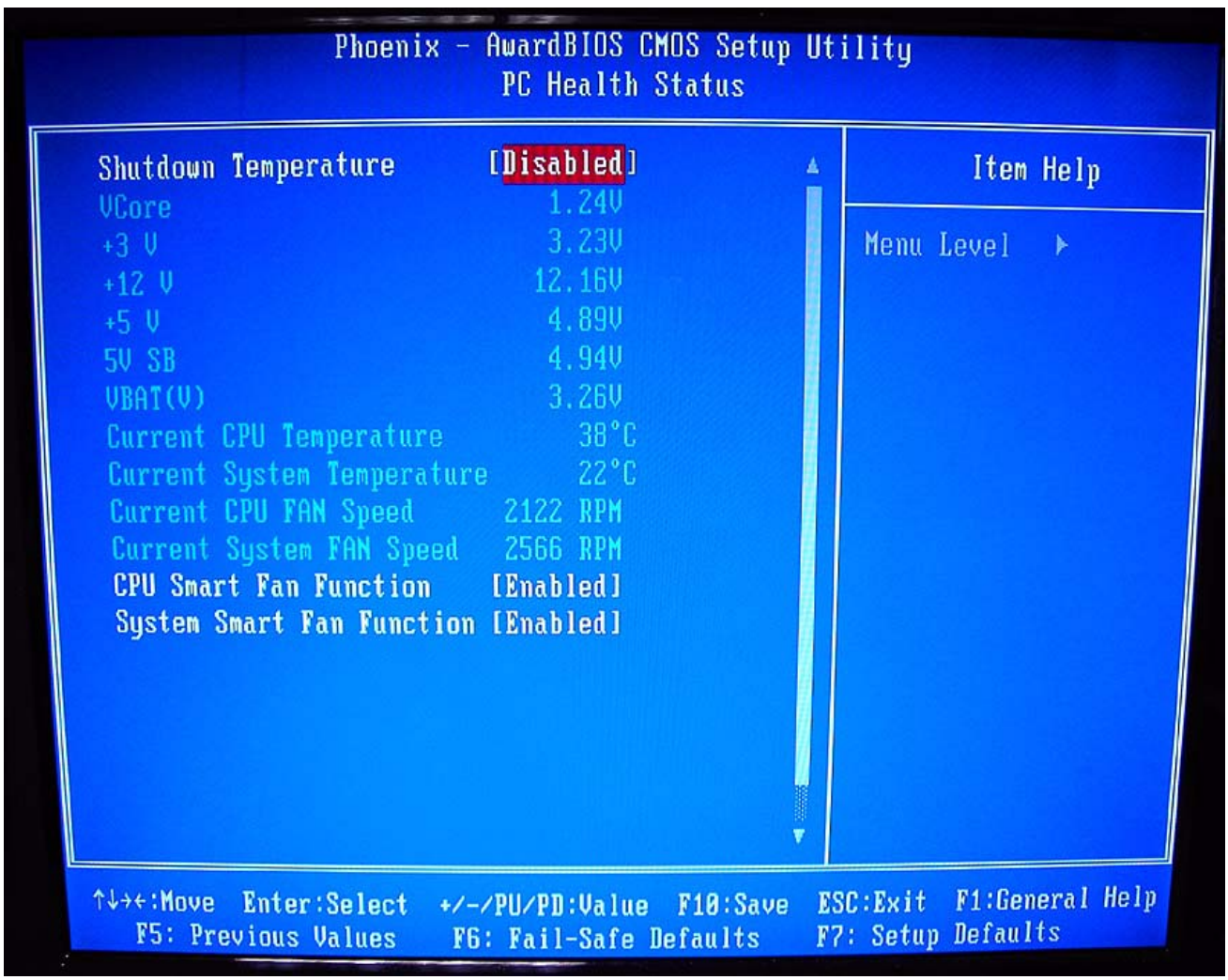
It identifies the interrupt request (IRQ) line assigned to a device connected to the PCI interface of your system.

Maximum Payload Size

This item specifies the maximum TLP payload size for the PCE Express devices. The unit is byte.

PC Health Status

On the main board that supports hardware monitoring, you can monitor the parameters of critical voltage, temperature and fan speed.


Phoenix - AwardBIOS CMOS Setup Utility
PC Health Status
Shutdown Temperature [Disabled]
VCore 1.24V
+3 V 3.23V
+12 V 12.16V
+5 V 4.89V
5V SB 4.94V
VBAT(V) 3.26V
Current CPU Temperature 38°C
Current System Temperature 22°C
Current CPU FAN Speed 2122 RPM
Current System FAN Speed 2566 RPM
CPU Smart Fan Function [Enabled]
System Smart Fan Function [Enabled]
Item Help
Menu Level
↑↓→←:Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help
F5: Previous Values F6: Fail-Safe Defaults F7: Setup Defaults

CPU and System Smart Fan Control

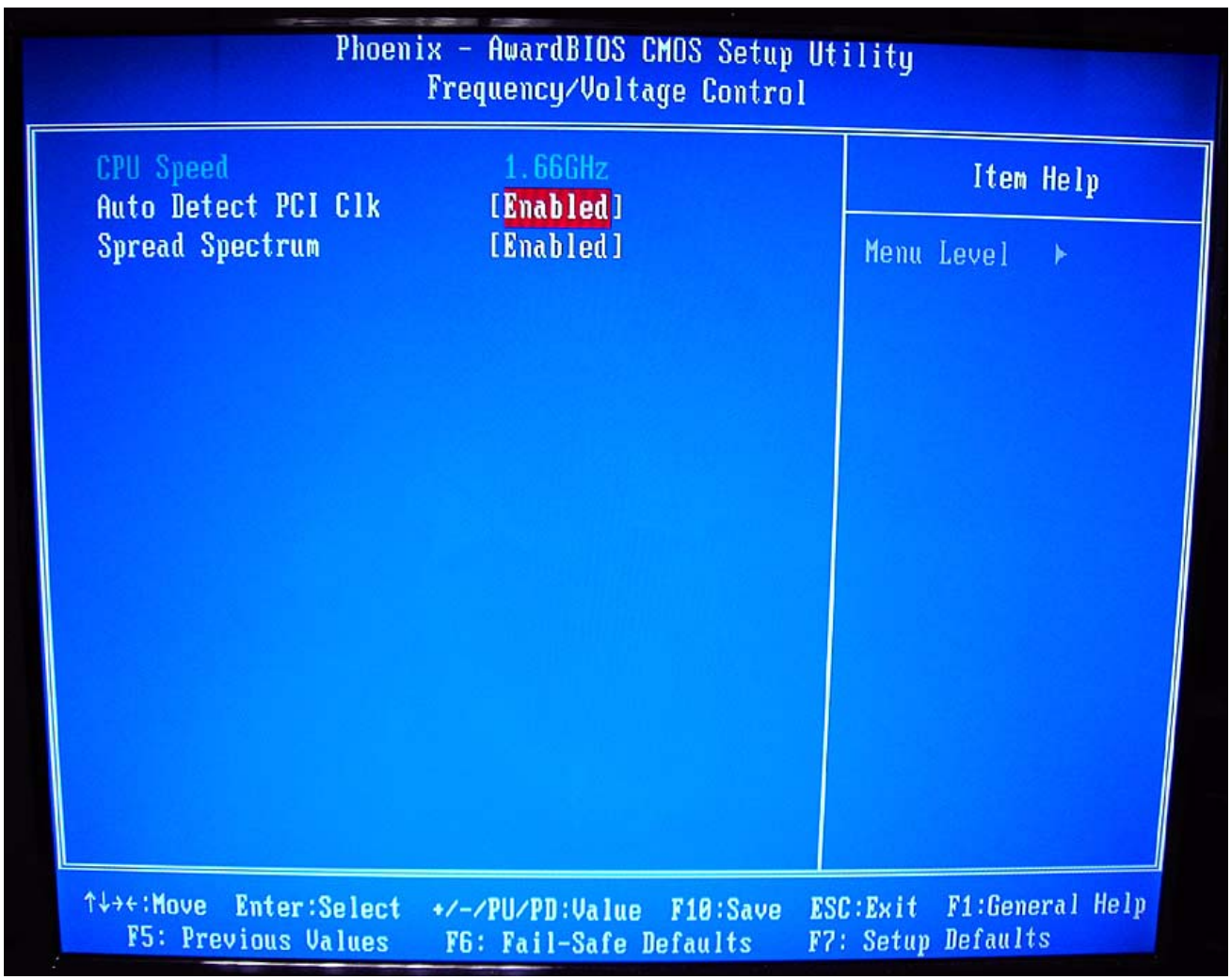
This item incorporates linear control metrics to provide optimal cooling. Under normal condition, Smart Fan keeps the fan speed low, minimizing acoustic noise. When the load increases, Smart Fan increases the fan speed to provide optimal cooling.

Shutdown Temperature

You can set the maximum temperature of the system. When the system reaches that temperature, it will be powered down.

Frequency/Voltage Control

It enables you to set the clock speed and system bus for your system. The clock speed and system bus are determined by the processor you have installed in your system.


Phoenix - AwardBIOS CMOS Setup Utility
Frequency/Voltage Control
CPU Speed 1.66GHz
Auto Detect PCI Clk [Enabled]
Spread Spectrum [Enabled]
Item Help
Menu Level
↑↓→←:Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help
F5: Previous Values F6: Fail-Safe Defaults F7: Setup Defaults

CPU Speed

This item displays the current CPU speed. Users can not make any changes.

Auto Detect PCI Clk

When it is enabled, BIOS will disable the clock signal of free DIMM and PCI slots.

Spread Spectrum

If you enable spread spectrum, it can significantly reduce the EMI (Electro-Magnetic Interference) generated by the system.

Load Default Settings

This option opens a dialog box that lets you install optimized defaults for all appropriate items in the Setup Utility. Press <OK> and then <Enter> to install the defaults. Press <Cancel> and then <Enter> to not install the defaults. If you only want to install setup defaults for a specific option, select and display that option, and then press <F9>.

Set Supervisor/User Password

When this function is selected, the following message appears at the center of the screen to assist you in creating a password.

Enter Password

Type the password, up to eight characters, and press <Enter>. The password typed now will clear any previously entered password from CMOS memory. You will be asked to confirm the password. Type the password again and press <Enter>. You can press <Esc> to abort the selection.

To disable password, just press <Enter> when you are prompted to enter password. A message will confirm the password being disabled. Once the password is disabled, the system will boot and you can enter BIOS Setup freely.

Password Disabled

If you have selected “System” in “Security Option” of “BIOS Features Setup” menu, you will be prompted for the password every time the system reboots or any time you try to enter BIOS Setup.

If you have selected “Setup” at “Security Option” of “BIOS Features Setup” menu, you will be prompted for the password only when you enter BIOS Setup.

Supervisor Password has higher priority than User Password. You can use Supervisor Password when booting the system or entering BIOS Setup to modify all settings. Also you can use User Password when booting the system or entering BIOS Setup but can not modify any setting if Supervisor Password is enabled.

Save and Exit Setup

You can highlight this item and press <Enter> to save the changes that you have made in the Setup Utility and exit the Setup Utility. When the Save and Exit dialog box appears, press <OK> to save and exit, or press <Cancel> to return to the main menu.

Exit without Saving

You can highlight this item and press <Enter> to discard any changes that you have made in the Setup Utility and exit the Setup Utility. When the Exit without Saving dialog box appears, press <OK> to discard changes and exit, or press <Cancel> to return to the main menu.

NOTE: If you have made settings that you do not want to save, choose the “Discard Changes and Exit” and press <OK> to discard any changes you have made.

Machine Disassembly and Replacement

This chapter contains step-by-step procedures on how to disassemble the Acer Aspire iDea desktop for maintenance and troubleshooting.

To disassemble the computer, you need the tools below:

- Wrist ground strap and conductive mat for preventing electrostatic discharge
- Small Philips screw driver
- Plastic flat head screw driver

NOTE: The screws for the different components vary in size. During the disassembly process, group the screws with the corresponding components to avoid mismatch when putting back the components. When you remove the stripe cover, please be careful not to scrape the cover.

General Information

Before You Begin

Before proceeding with the disassembly procedure, you have to make sure that:

1. The system and all peripherals are powered off.
2. The AC adaptor and all power and signal cables from the system are unplugged.

NOTE: There are several types of screws used to secure the main unit. The screws vary in length. Group the same type of screws together during the disassembly procedure. Please also remember the screw location for each screw type. If you fasten the screws on the wrong location, the long screws may cause irrecoverable damage to the parts.

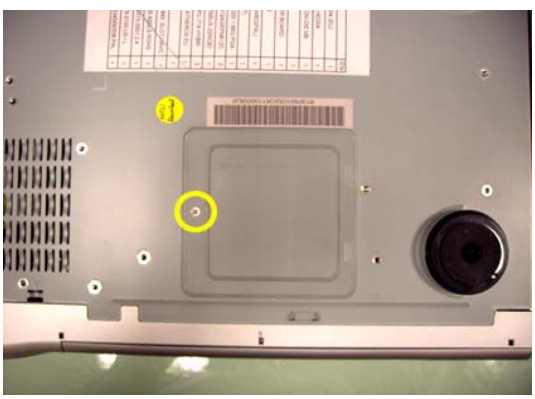
Disassembly Procedure

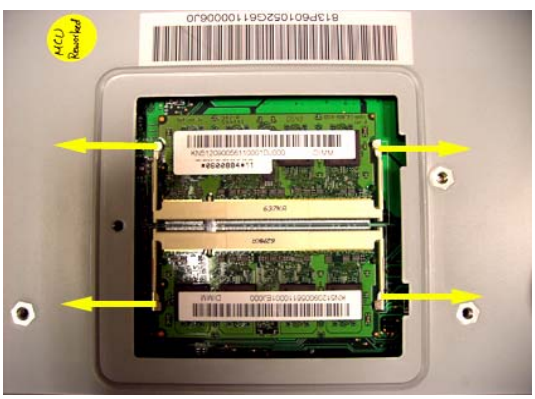
This section tells you how to disassemble the system when you need to perform system maintenance or troubleshooting.

NOTE: Before you begin, make sure you have turned off the system and remove all peripherals connected to it.

Removing the Memory

1. Release the screw holding the memory module cover on the bottom side.
2. Pull the latches as the arrows indicate and the memory will pop-up. Then remove the memory.
3. You can skip this step because the removal of memory is not a necessary step for disassembly of other parts.



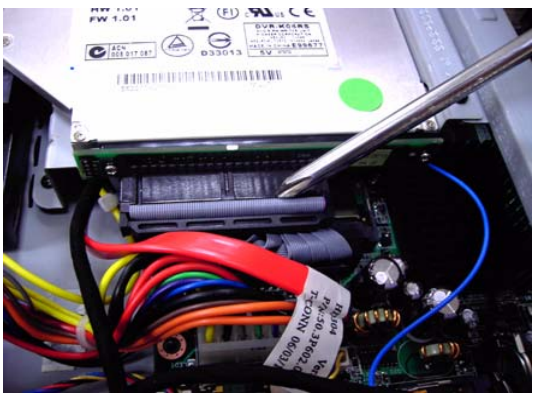


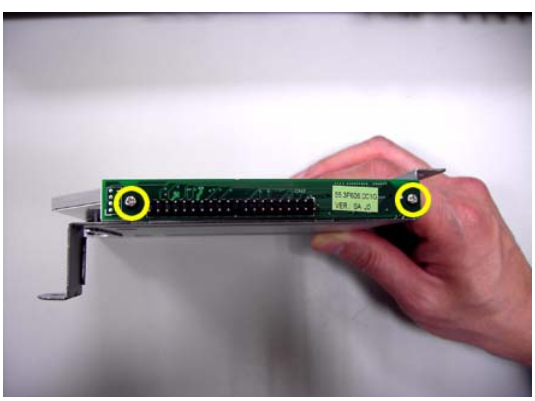
Removing the Upper Case

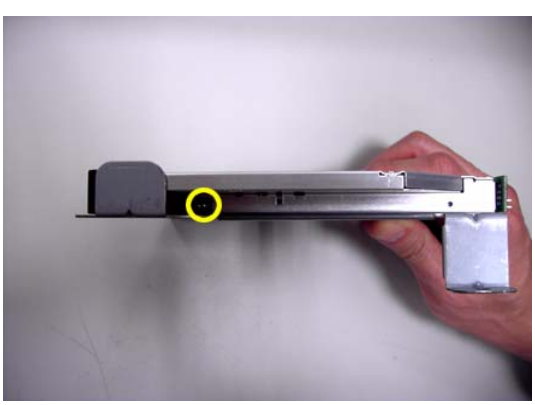
1. Release the three screws securing the upper case and pull the upper case as the arrows indicate to remove it.

Removing the ODD Module

1. Pull and disconnect the IDE cable.
2. Release the three screws holding the ODD module bracket then remove the ODD module.
3. Release the two screws holding the IDE board then remove the IDE board.
4. Release the three screws securing the ODD module bracket then remove the bracket.

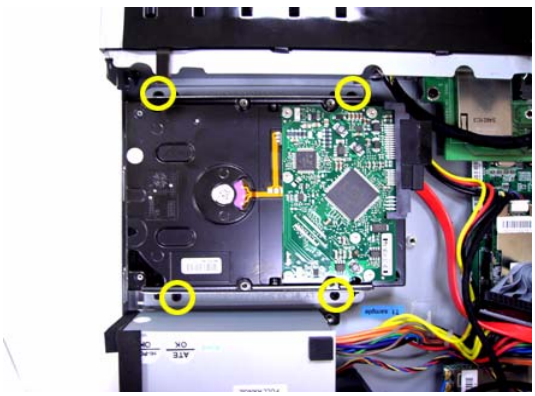


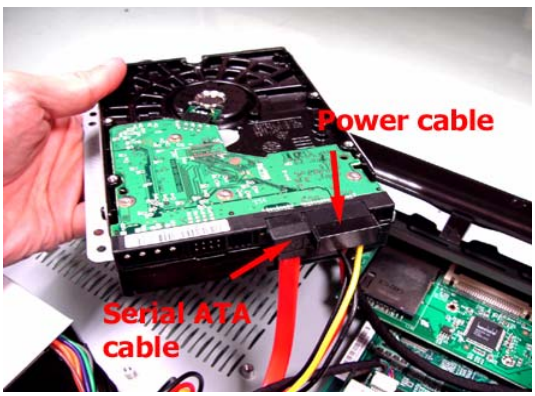


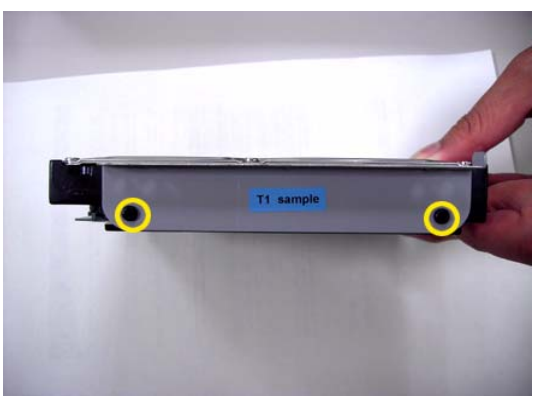


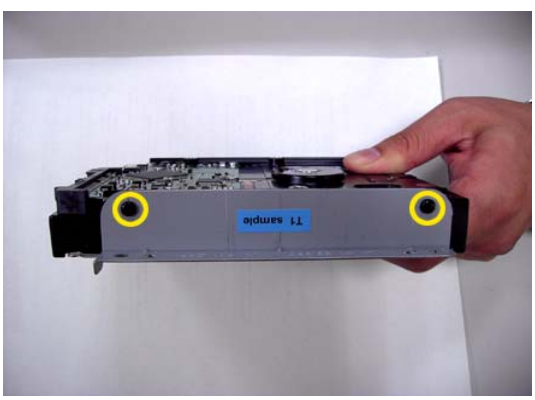
Removing the HDD Module

1. Release the four screws securing the HDD module and detach the HDD module.
2. Disconnect the serial ATA cable and the power cable and remove the HDD module.
3. Release the four screws securing the HDD module brackets and remove the brackets.



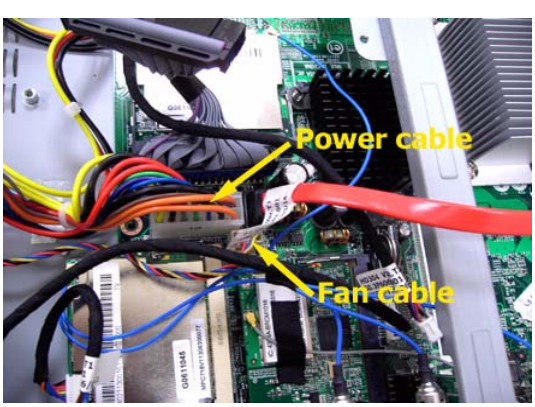






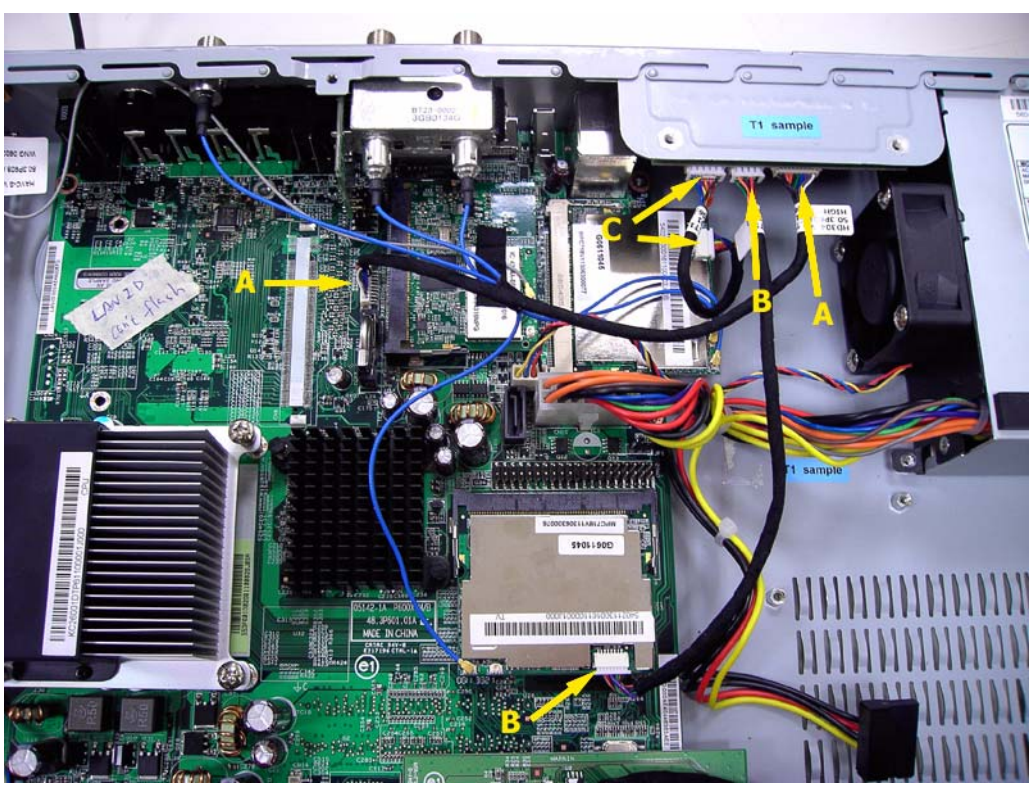
Removing the System Power Supply

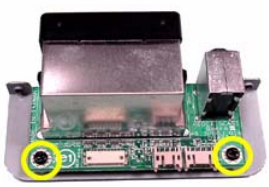
1. Pull and disconnect the power cable and the fan cable.
2. Release the four screws securing the system power supply and remove the system power supply.



Removing the RCA Board

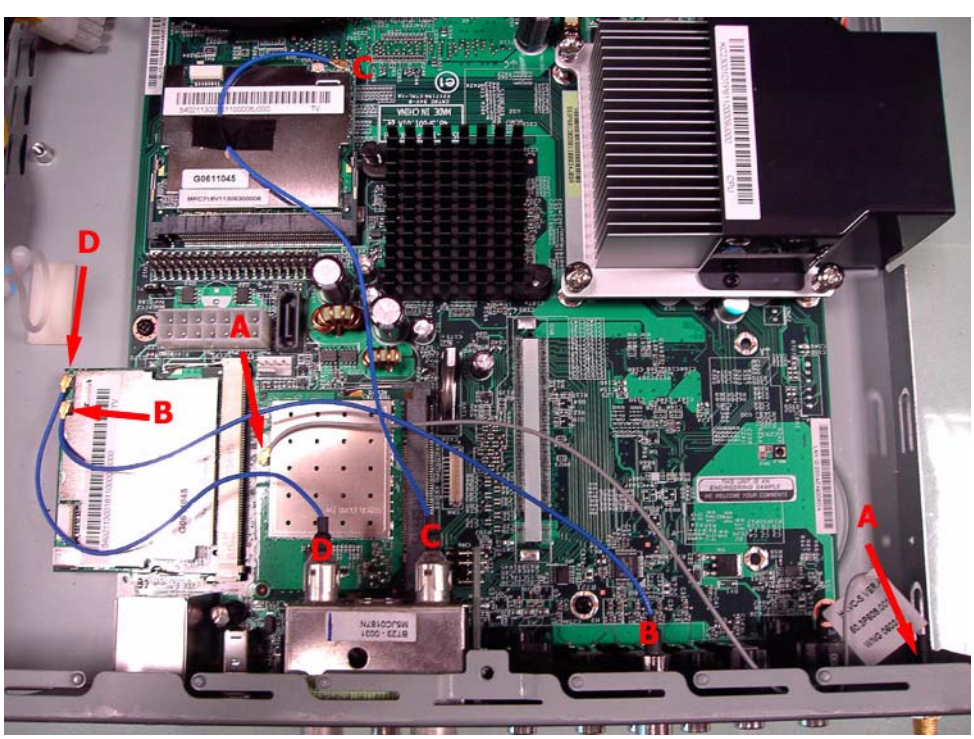
1. When you do the assembly, please refer to this picture for connecting the three RCA board cables properly.
2. Carefully disconnect the three RCA board cables.
3. Release the three screws holding the RCA board and detach the RCA board.
4. Release the two screws on the RCA board and remove the RCA board bracket.



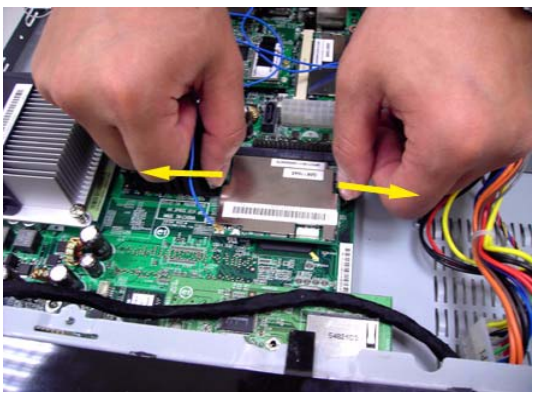
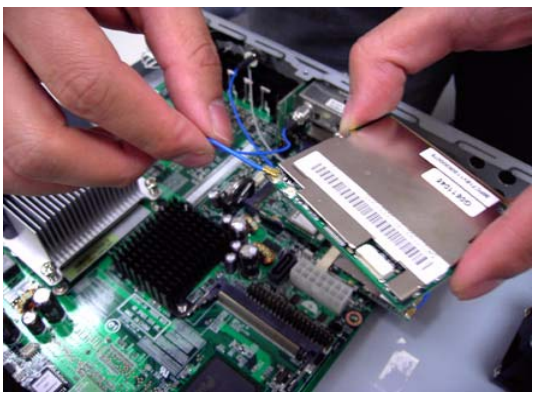
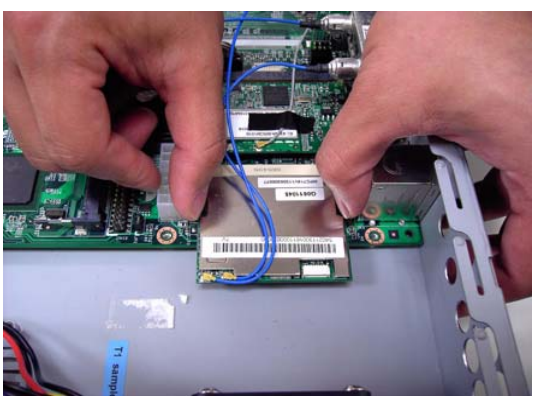


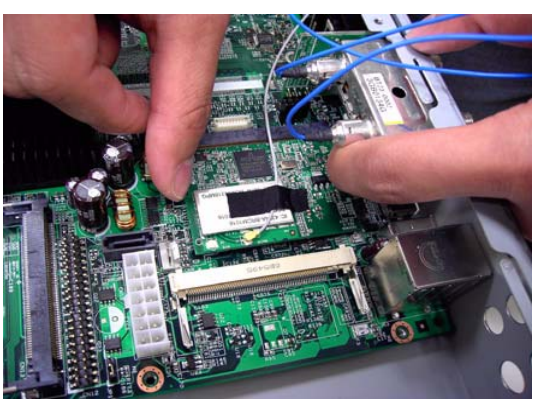
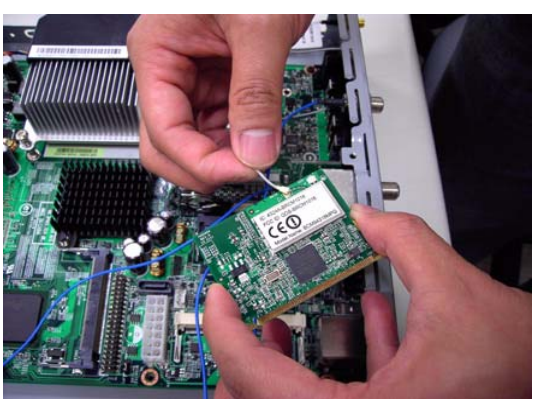
Removing the Add-on Cards

1. When you do the assembly, please refer to this picture for connecting the add-on cards cables properly.



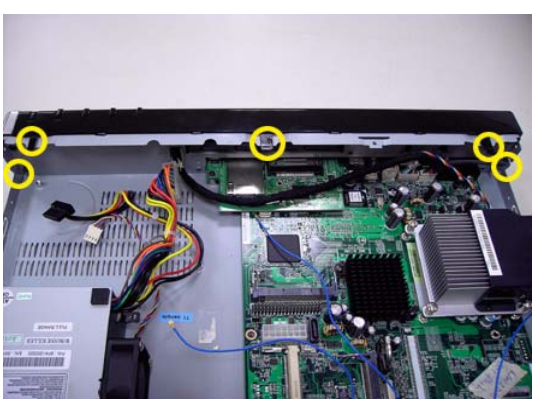
2. Pull the latches of TV card 1 as shown and the card will pop up. Slightly detach the TV card 1 from the slot and disconnect the card cable.
3. Repeat the step 2 to detach the TV card 2 and disconnect the card cable.
4. Repeat the step 2 to detach the wireless LAN card and disconnect the card cable.

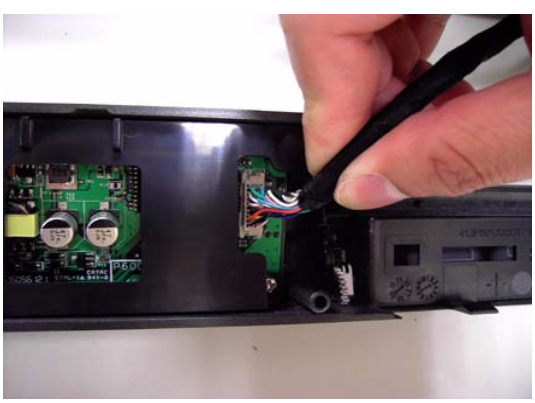




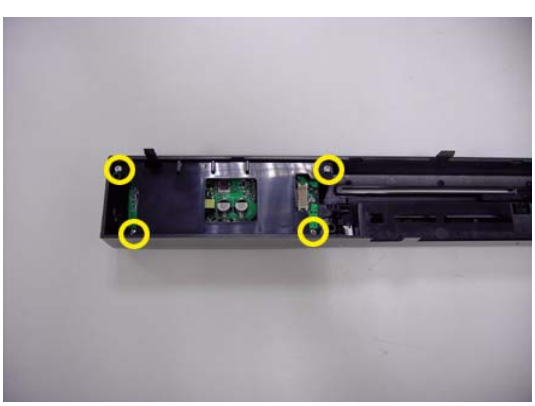



Removing the VFD Board

1. On the main board, there are five connectors as shown. They are A) power launch cable connector, B) VFD board cable connector, C) CPU fan cable connector, D) wireless keyboard module cable connector and E) bluetooth module cable connector.
2. To remove the front panel, at least you have to disconnect B) VFD board cable and release the screw securing the VFD board cable.
3. Unlatch the five latches holding the front panel as shown. Then carefully detach the front panel from the main unit and pull out the VFD board cable at the same time.
4. Disconnect the VFD board cable.
5. Release the four screws and you have access to the VFD board.

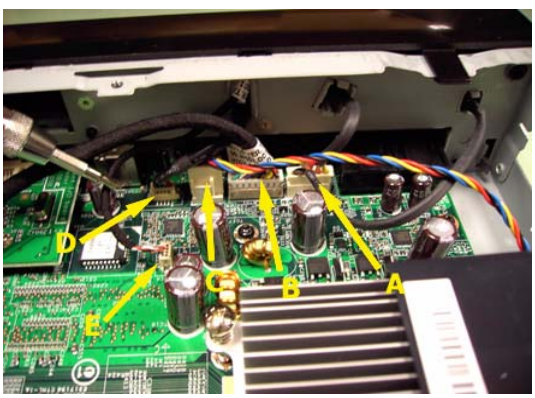


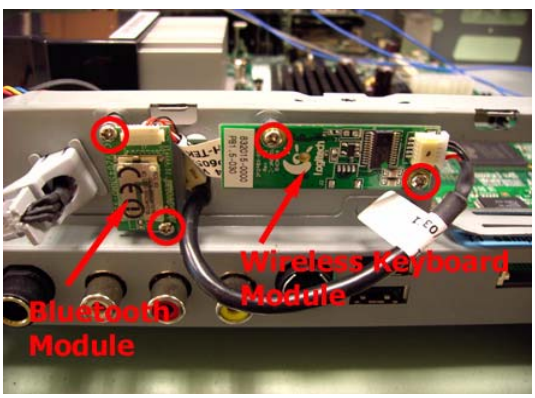




Removing the Wireless Keyboard Module and the Bluetooth Module

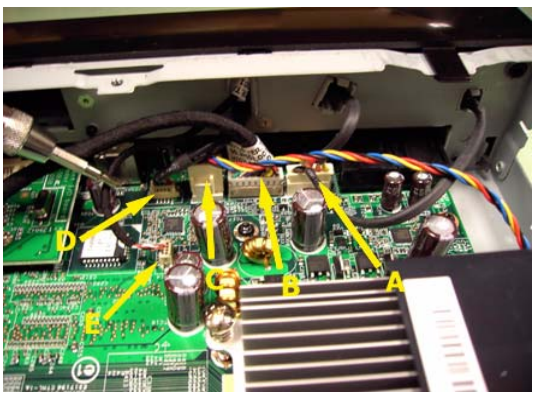
1. As long as remove the front panel, you can approach the wireless keyboard module and the bluetooth module. Please refer to the anterior page for the removal of front panel.
2. Disconnect D) wireless keyboard module cable and E) bluetooth module cable.
3. Release the four screws securing the wireless keyboard module and the bluetooth module and carefully remove the wireless keyboard module and the bluetooth module. You can abort the disassembly procedures at this step if you are not going to remove the main board.
4. If you want to remove the main board next, please remove the bracket at this step. After the completion of step 3, please release the two screws holding the bracket and remove the bracket.

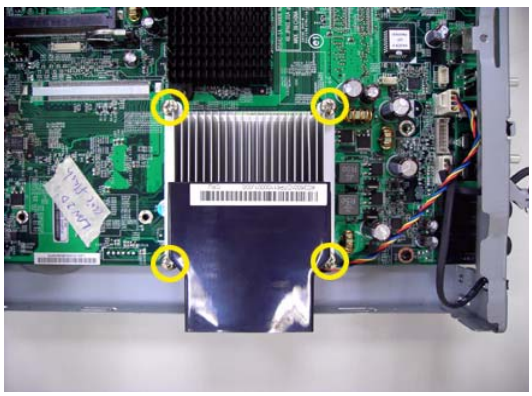




Removing the CPU Fan

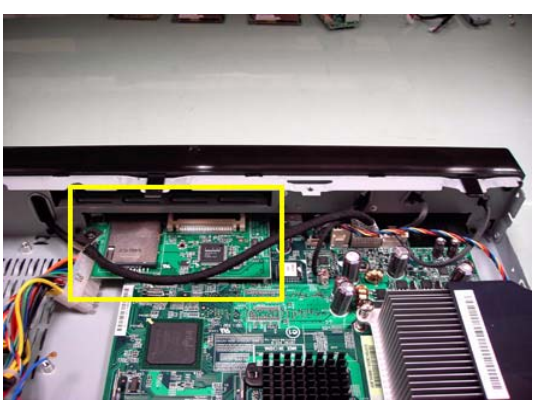
1. Disconnect C) CPU fan cable.
2. Release the four screws fastening the CPU fan and remove the CPU fan.

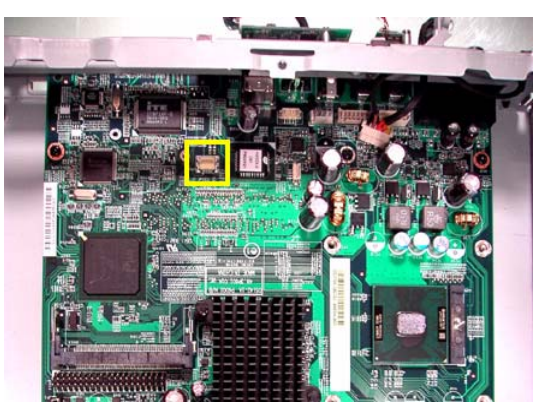




Removing the Card Reader Board

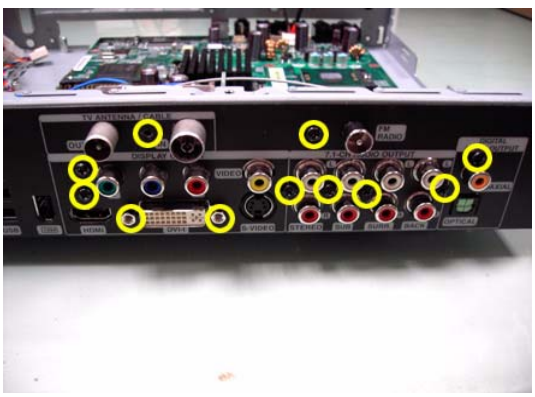
1. Release the screw securing the card reader as shown.
2. Carefully detach the card reader from the main board.
3. When you do the assembly, please attach the card reader board on the main board properly.

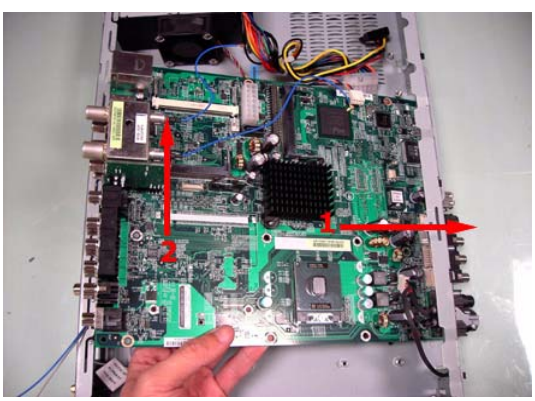


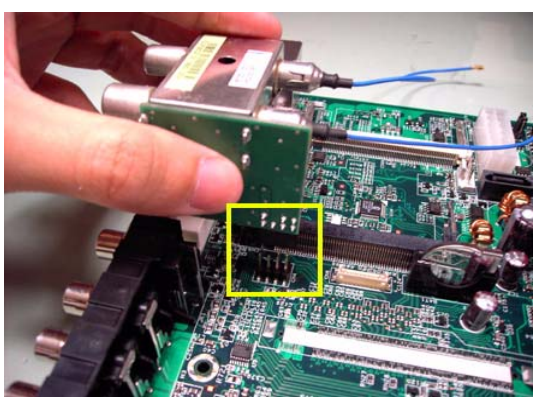


Removing the Main Board and the Split Board

1. Release those screws marked in yellow.
2. While you release those screws, please hold the back side of the I/O jacks as shown.
3. After releasing those screws, 1) slide the main board to the front panel side and 2) lift the main board as shown. Then detach the main board from the lower case.
4. Detach the split board from the main board as shown.







Troubleshooting

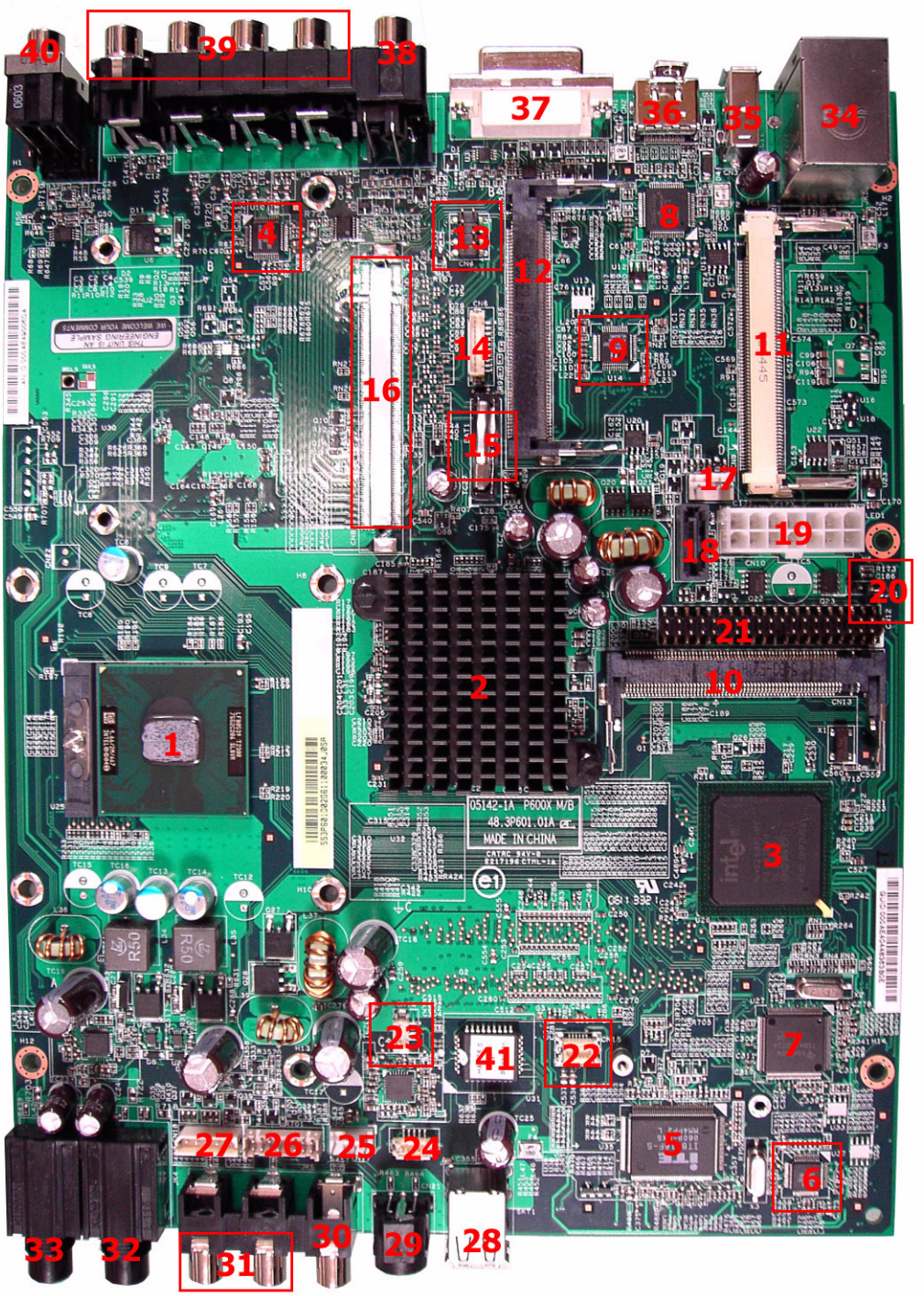
Please refer to generic troubleshooting guide in the service guide database for information with respect to following topics:

- Power-On Self-Test (POST)
- POST Check Points
- POST Error Messages List
- Error Symptoms List

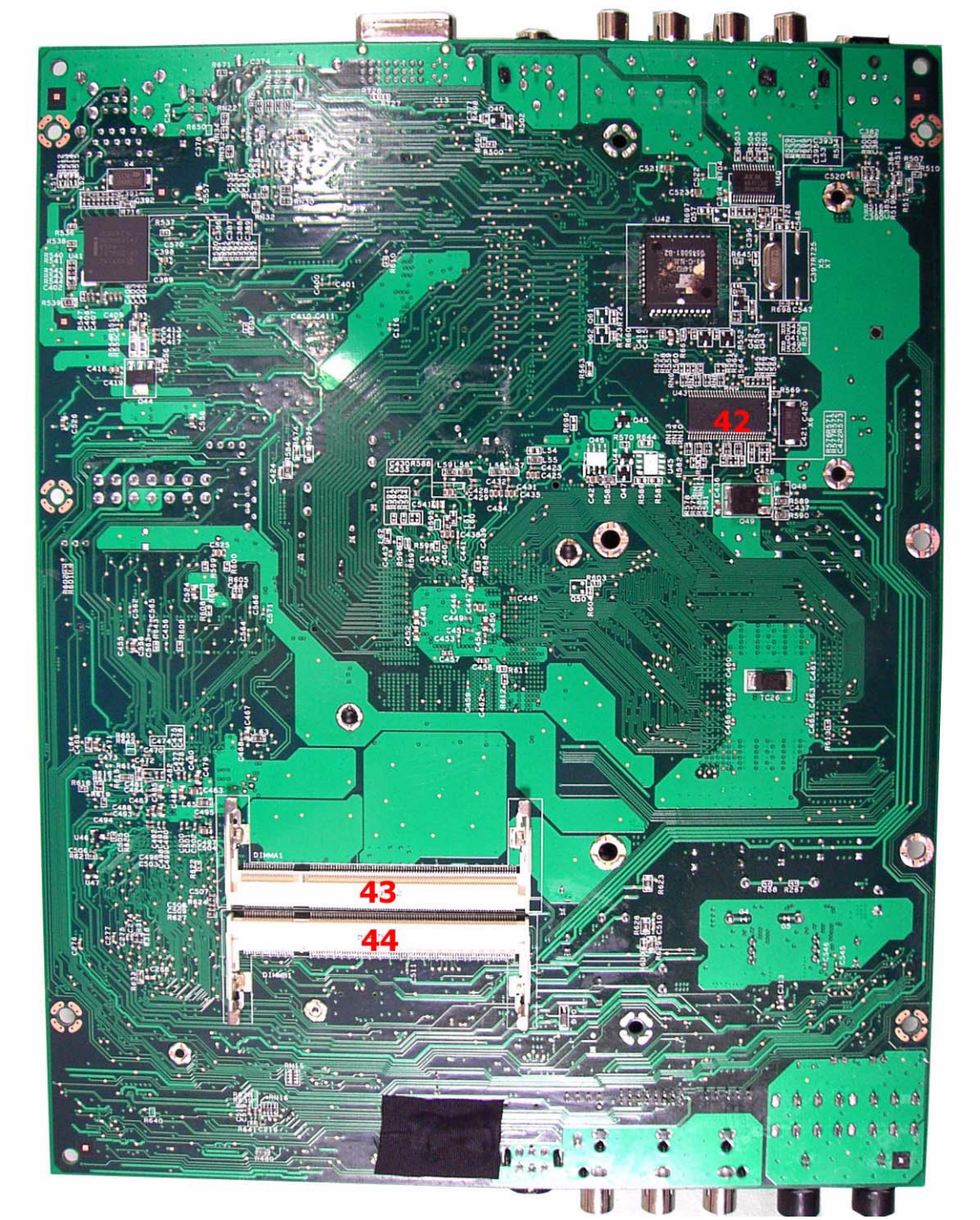
Jumper and Connector Information

Introduction of Connectors

Upper Side of Main Board



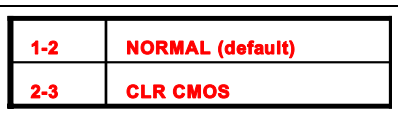
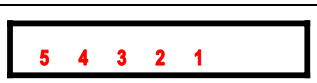
Lower Side of Main Board



No.	Description	No.	Description
1	CPU socket	2	North bridge
3	South bridge	4	Azalia codec: Realtek ALC883DD
5	Super I/O controller: ITE8716F	6	USB hub: GL850A
7	IEEE 1394: Ti TSB43AB22A	8	Transmitter for HDMI: Silicon Image 1390

No.	Description	No.	Description
9	Transmitter for DVI-I: Chrontel 7313A	10	Mini PCI 1 slot for TV tuner card 1
11	Mini PCI 2 slot for TV tuner card 2	12	Mini PCI 3 slot for WLAN card
13	YPbPr to main board connector	14	SCART to main board connector
15	Battery	16	MXM connector (optional)
17	System fan connector	18	SATA connector
19	14-pin power connector	20	Jumper connector
21	PATA connector	22	Card reader connector
23	Bluetooth connector	24	IR connector
25	CPU fan connector	26	VFD board connector
27	Power button connector	28	USB 2.0 ports
29	S-Video input jack	30	Video input jack
31	Audio input jack	32	1/4” microphone jack
33	1/4” headphone jack	34	RJ-45 port and two USB 2.0 ports
35	6-pin IEEE1394 port	36	USB 2.0 port
37	DVI-I connector	38	Video output jack and S-Video output jack
39	Multi-channel speaker audio output connectors	40	Coaxial digital audio output jack
41	BIOS chip: PMC PM49FL004T	42	Clock generator
43	soDIMM slot	44	soDIMM slot

Jumper Setting and Power button

No.	Item	Description
20	Jumper	
27	Power button	 1-2 power button 3-5 power LED

FRU (Field Replaceable Unit) List

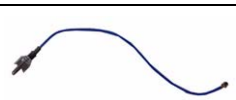
This chapter offers the FRU (Field Replaceable Unit) list in global configuration of Aspire iDea series desktop. Refer to this chapter whenever ordering the parts to repair or for RMA (Return Merchandise Authorization).

Please note that when ordering FRU parts, you should check the most up-to-date information available on your regional web or channel. For whatever reasons a part number is changed, it will NOT be noted on the printed service guide. For Acer authorized service providers, your Acer office may have a different part number code from those given in the FRU list of this printed service guide. You MUST use the local FRU list provided by your regional Acer office to order FRU parts for service.

NOTE: To scrap or to return the defective parts, you should follow the local government ordinance or regulations on how to dispose them properly, or follow the rules set by your regional Acer office on how to return it.

Parts

CATEGORY	PART NAME	DESCRIPTION	ACER PART NO.
REMOTE CONTROL			
	REMOTE CONTROLER RC1534509/00B PAL FOR EUROPE	REMOTE CTRL RC1534509/00B PAL	RT.MCE08.001
	REMOTE CONTROLER RC1534002/00 NTSC FOR AAP	REMOTE CTRL RC1534002/00 NTSC	RT.MCE08.002
	REMOTE CONTROLER RC1534031/00B NTSC FOR TWN	REMOTE CTRL RC1534031/00B NTSC	RT.MCE08.003
ADAPTER			
N/A	ADAPTER DVI-A TO HD15 NVIDIA	"ADAPTER,DVI-A TO HD15,NVIDIA "	20.S50V1.001
BOARD			
	WIRELESS LAN BOARD 802.11BG FOXCONN BCM4318 MURA	WLAN 802.11BG FOX BCM4318 MURA	54.A74V1.002
	"MPC-718, HYBRID SILICON TUNER WITH HW ENCODER, FM, DUAL AV-IN, MCE, MPCI 3A"	TV TUNER MINIPCI MPC-718 HYBRI	TU.S5007.001
	CARD READER BOARD	P600X/HAVC5.0 CARD READER BD	55.S50V1.003
	SPLITTER BOARD PAL	P600X/HAVC5.0 SPLITTER PAL BD	55.S50V1.004
	IDE BOARD	P600X/HAVC5.0 IDE BD	55.S50V1.005
N/A	RF RECEIVER BOARD 2.4G	RF RECEIVER BD 832015-0001 2.4	RV.RAN01.001
	SCART BOARD	P600X/HAVC5.0 SCART BD	55.S50V1.002

CATEGORY	PART NAME	DESCRIPTION	ACER PART NO.
	VFD BOARD	P600X/HAVC5.0 VFD BD	55.S50V1.001
CABLE			
N/A	POWER CORD H05VV-F W/ INSULATED AUS	CORD H05VV-F W/ INSULATED (AUS)	27.02718.392
	POWER CORD SVT 18AWG*3C 10A125V USA	CORD SVT 18AWG*3C 10A125V(USA)	27.01818.071
	POWER CORD H05VV-F 10A/ 250V EUROPE	CORD H05VV-F 10A/ 250V(EUROPE)	27.02718.401
	POWER CORD H05VV-F 5A250V UK	CORD H05VV-F 5A250V (UK)	27.02718.381
	POWER CORD 250V 10A 1800MM SWISS	CORD 250V 10A 1800MM SWISS	27.01518.251
	POWER CORD 250V 10A 1800MM DENMARK	CORD 250V 10A 1800MM DENMARK	27.01518.201
N/A	FM CABLE USA	CA FM ANTENNA(PAL)1800MM HD304	50.S50V1.022
N/A	POWER SWITCH CABLE	C.A. POWER SW HD304	50.S50V1.001
	SATA CABLE	C.A. SATA HD304	50.S50V1.002
	OPTICAL CABLE	C.A. ODD HD304	50.S50V1.003
N/A	VFD CABLE	C.A. VFD HD304	50.S50V1.004
	TV-S CABLE 8PIN	C.A. TV-S 8PIN HD304	50.S50V1.005
	TV-S IR CABLE 10PIN	C.A. TV-S IR 10PIN CABLE	50.S50V1.006
	SCART CABLE OUT	C.A. SCART OUT HD304	50.S50V1.007
	SPLITTER CABLE L	C.A. SPLITTER L HD304	50.S50V1.008
	SPLITTER CABLE S	C.A. SPLITTER S HD304	50.S50V1.009

CATEGORY	PART NAME	DESCRIPTION	ACER PART NO.
N/A	FM CABLE EUR	C.A. FM EUR HD304	50.S50V1.010
N/A	RF CABLE	C.A. RF HD304	50.S50V1.011
N/A	DVT CABLE 1800MM	C.A. DVT TO DVI 1800MM HD304	50.S50V1.012
N/A	HDMI CABLE19PIN 2CONNECTOR180MM	C.A. HDMI 19P 2C 1800MM HD304	50.S50V1.013
N/A	RCA CABLE 1800MM	C.A. RCA 1800MM HD304	50.S50V1.014
N/A	RCA CABLE TO SPEAKER	C.A. RCA TO SPEAKER/F 140MM	50.S50V1.015
N/A	SVIDO 2CONNECTOR 1800MM	C.A. SVIDEO 2C 1800MM HD304	50.S50V1.016
N/A	IR CABLE 1800MM	C.A. IR 1800MM HD304	50.S50V1.017
N/A	SCART CABLE 2CONNECTOR 1800MM	C.A. SCART 2C 1800MM HD304	50.S50V1.018
N/A	RCA CABLE 2TO2 1800MM	C.A. RCA 2 TO 2 1800MM HD304	50.S50V1.019
N/A	RCA CABLE 1800MM	C.A. RCA 3 TO 3 1800MM HD304	50.S50V1.020
N/A	FM ANTENNA PAL 1800MM	CA FM ANTENNA(PAL)1800MM HD304	50.S50V1.021
CASE / COVER / BRACKET ASSEMBLY			
	ASSEMBLY HOUSE WITH POWER SWITCH CABLE	ASSY chassis EUR HD304	60.S50V1.001
N/A	FRONT IO BRACKET	BRKT FRONT IO HD304	33.S50V1.003
N/A	TV PAL BRACKET	BRKT TV PAL SECC T0.8 HD302	33.S50V1.005
	OPTICAL BRACKET	BRKT ODD HD304	33.S50V1.002
	HDD BRACKET	BRKT HDD HD304	33.S50V1.001
	CONVERT BOARD HOLDER	HLDR ODD SPACE FOR HD304	42.S50V1.001

CATEGORY	PART NAME	DESCRIPTION	ACER PART NO.
	FRONT BEZEL	ASSY FRONTBEZEL HD304	PZ.S5003.001
	SCART-RCA BRACKET	BRKT SCART-RCA BD HD304	33.S50V1.004
COMMUNICATION MODULE			
N/A	EXTERNAL ANTENNA SET	ANTENNA HD304	27.S50V1.001
N/A	ANTENNA CABLE	C.A.ANTENNAHD304	27.S50V1.002
PROCESSOR			
	CPU DC YONAH T2300E 1.66GMHZ	IC CPU DC YONAH T2300E 1.66G	KC.23E01.DTP
	CPU DC YONA T2300 1.66GMHZ INTEL	IC CPU DC YONA T2300 1.66G PGA	KC.23001.DTP
	CPU DC YONA T2600 2.17GMHZ INTEL	IC CPU DC YONA T2600 2.17G PGA	KC.26001.DTP
	CPU DC YONA T2500 2GMHZ INTEL	IC CPU DC YONA T2500 2G PGA	KC.25001.DTP
	CPU DC YONA T2400 1.83GMHZ INTEL	IC CPU DC YONA T2400 1.83G PGA	KC.24001.DTP
DVD-RW DRIVE			
	DVD-RW DRIVE 8X SUPER-MULT PANASONIC UJ-845	SUPER-MUL PAN/UJ-845 SLOT HAVC	KU.00807.042
HDD / HARD DISK DRIVE			
	HDD 250G WD WD2500JS-22NCB1	HDD 250GB WD WD2500JS-22NCB1	KH.25008.015
HEATSINK			
	THERMAL PLATE	ASSY THERMAL PLATE HD304	33.S50V1.006
	HEATSINK	ASSY FSINK YONAH 31W HAVC5_0	34.S50V1.001

CATEGORY	PART NAME	DESCRIPTION	ACER PART NO.
KEYBOARD			
	WIRELESS KEYBOARD LOGITECH 967879-0120 UK LOG	WIRELESS KB 967879-0120 UK LOG	KB.RAN04.002
	WIRELESS KEYBOARD LOGITECH 967879-0101 FRENCH	WIRELESS KB 967879-0101 FRENCH	KB.RAN04.003
	WIRELESS KEYBOARD LOGITECH 967879-0102 GERMAN	WIRELESS KB 967879-0102 GERMAN	KB.RAN04.005
	WIRELESS KEYBOARD LOGITECH 967879-0103 ITALIA	WIRELESS KB 967879-0103 ITALIA	KB.RAN04.004
	WIRELESS KEYBOARD LOGITECH 967879-0100 US-I L	WIRELESS KB 967879-0100 US-I L	KB.RAN04.006
	WIRELESS KEYBOARD LOGITECH 967879-0123 BELGIU	WIRELESS KB 967879-0123 BELGIU	KB.RAN04.009
	WIRELESS KEYBOARD LOGITECH 967879-0131 SWISS	WIRELESS KB 967879-0131 SWISS	KB.RAN04.007
	WIRELESS KEYBOARD LOGITECH 967879-0104 SPAN	WIRELESS KB 967879-0104 SPAN	KB.RAN04.012
	WIRELESS KEYBOARD LOGITECH 967879-0106 SWEDIS	WIRELESS KB 967879-0106 SWEDIS	KB.RAN04.013
	WIRELESS KEYBOARD LOGITECH 967879-0107 DANISH	WIRELESS KB 967879-0107 DANISH	KB.RAN04.014
	WIRELESS KEYBOARD LOGITECH 967879-0109 FINLAN	WIRELESS KB 967879-0109 FINLAN	KB.RAN04.016
	WIRELESS KEYBOARD LOGITECH 967879-0108 NORWAY	WIRELESS KB 967879-0108 NORWAY	KB.RAN04.021
	WIRELESS KEYBOARD LOGITECH 967879-0112 RUSSIA	WIRELESS KB 967879-0112 RUSSIA	KB.RAN04.015
	WIRELESS KEYBOARD LOGITECH 967879-0128 CZECH	WIRELESS KB 967879-0128 CZECH	KB.RAN04.017
	WIRELESS KEYBOARD LOGITECH 967879-0125 TURKIS	WIRELESS KB 967879-0125 TURKIS	KB.RAN04.020
	WIRELESS KEYBOARD LOGITECH 967879-0218 ARABIC	WIRELESS KB 967879-0218 ARABIC	KB.RAN04.010
	WIRELESS KEYBOARD LOGITECH 967879-0403 US LOG	WIRELESS KB 967879-0403 US LOG	KB.RAN04.001
	WIRELESS KEYBOARD LOGITECH 967879-0121 TRADIT	WIRELESS KB 967879-0121 TRADIT	KB.RAN04.022
MAIN BOARD			

CATEGORY	PART NAME	DESCRIPTION	ACER PART NO.
	MAINBOARD 945GT	945GT/ICH7-M VGA ON-DIE MB	MB.S5001.001
MEMORY			
	SDIMM 256MB DDRII533 NANYA NT256T64UH4A1FN-37B	DIMM 256M NT256T64UH4A1FN-37B	KN.25603.029
	SDIMM 256MB DDRII533 SAMSUNG M470T3354CZ3-CD5	SODIMM 256M M470T3354CZ3-CD5	KN.2560B.017
	SDIMM 512MB DDRII533 ELPIDA GU33512AGEPN612C	SODIMM 512M GU33512AGEPN612C	KN.51209.005
	SDIMM 512MB DDRII533 NANYA NT512T64UH8A1FN-37B	SODIMM512M NT512T64UH8A1FN-37B	KN.51203.023
	SDIMM 512MB DDRII533 SAMSUNG M470T6554CZ3-CD5	SODIMM 512M M470T6554CZ3-CD5	KN.5120B.015
	SDIMM 512MB DDRII533 PSC AS6E8E63B-5CIA	SODIMM 512M AS6E8E63B-5CIA	KN.5120E.002
	SDIMM 1GB DDRII533 ELPIDA GU331G0AGEPN6E2C LF	SODIMM 1G GU331G0AGEPN6E2C	KN.1GB09.004
	SDIMM 1GB DDRII533 SAMSUNG M470T2953CZ3-CD5	SODIMM 1G M470T2953CZ3-CD5	KN.1GB0B.004
	SDIMM 256MB DDRII667 INFINEON HYS64T32000HDL-3S-B	SODIMM256M HYS64T32000HDL-3S-B	KN.25602.032
	SDIMM 256MB DDRII667 NANYA NT256T64UH4A1FN-3C	SODIMM 256M NT256T64UH4A1FN-3C	KN.25603.027
	SDIMM 512MB DDRII667 INFINEON HYS64T64020HDL-3S-B	SODIMM512M HYS64T64020HDL-3S-B	KN.51202.035
	SDIMM 512MB DDRII667 NANYA NT512T64UH8A1FN-3C	SODIMM 512M NT512T64UH8A1FN-3C	KN.51203.025
	SDIMM 1GB DDRII667 ELPIDA GU331G0AJEPN6E2C	SODIMM 1G GU331G0AJEPN6E2C	KN.1GB09.005
	SDIMM 1GB DDRII667 SAMSUNG M470T2953CZ3-CE6	SODIMM 1G M470T2953CZ3-CE6	KN.1GB0B.005
POWER SUPPLY			

CATEGORY	PART NAME	DESCRIPTION	ACER PART NO.
	POWER POWERSUPPLY 120W SPI FSP120-40GLS ROHS	SPS 120W SPI FSP120-40GLS ROHS	PY.12008.001
SCREW			
N/A	SCREWS	SCRW HEX I#4-40/ O#4-40 L5.5 NI	34.00015.071
N/A	SCREWS	SCRW MACH PAN M2*6L NI	86.1A522.6R0
N/A	SCREWS	SCRW PAN M2*2.5	86.1A522.2R5
N/A	SCREWS	SCREW FLAT #6-32*3/16 NI	86.5A5B6.012
N/A	SCREWS	SCRW PAN M3 L5 BZN	86.1A324.5R0
N/A	SCREWS	SCRW PAN T M3 L5 BZN	86.VA324.5R0
N/A	SCREWS	SCRW PAN M #6-32 L5 BZN	86.00E66.D60
N/A	SCREWS	SCRW M3-P0.5 L5.0 BZN	86.HA324.5R0